Encl. [illegible]

D-1021

PDR - 1
LPDR -
WM-10 (2)
WM-11 (2)
WM-16 (2)

NUCLEAR WASTE CONSULTANTS INC.
8341 So. Sangre de Cristo Rd., Suite 14
Littleton, Colorado 80127
(303) 973-7495

WM DOCKET CONTROL CENTER

'87 MAR 19 A9:55

March 11, 1987

009/2.2/TTI.003
RS-NMS-85-009
Communication No. 141

Encl in Pocket

U.S. Nuclear Regulatory Commission
Division of Waste Management
Geotechnical Branch
MS-623-SS
Washington, DC 20555

Attention: Mr. Jeff Pohle, Project Officer
Technical Assistance in Hydrogeology - Project B (RS-NMS-85-009)

Re: Semi-Annual Update of BWIP Data Management and Inventory Report

Dear Mr. Pohle:

This cover letter transmits to the NRC staff Terra Therma, Inc.'s (TTI) semi-annual update of the Data Management and Inventory Report (Subtask 2.2). The report has received a management review by M. Logsdon of Nuclear Waste Consultants. The report has been completed under TTI's quality assurance procedures in compliance with NWC's project-specific QA Plan.

The TTI report is divided into five sections:

- o Geological data;
- o Hydraulic head data;
- o Geochemical data;
- o Single-Borehole test data;
- o Multiple-Borehole test data.

As Mr. Galloway points out in his cover letter to NWC, the BWIP team has not received any new data from either DOE or NRC since the last update report. Thus, this version of the report differs from the last only in that quality-control evaluations have been implemented.

WM-RES
WM Record File
D-1021
NWCI

WM Project 10, 11, 16
Docket No.
PDR ✓
LPDR B, N, S

Distribution:
Pohle

(Return to WM, 623-SS)

8704240131 870311
PDR WMRES EECNWCI
D-1021 PDR

3752

DATA MANAGEMENT REPORT UPDATE

Basalt Waste Isolation Project
Subtask 2.2
Data Inventory and Management

Prepared by

Terra Therma Inc.

for

Nuclear Waste Consultants

TERRA THERMA, INC.
WATER CONSULTANTS AND ENGINEERS

March, 1987

NWC notes (and concurs with) TTI's request that the NRC Staff attempt to expedite the delivery to us of the data that was requested at the December, 1986 BWIP data review. Attachment B of the TTI report includes a list of documents and related materials that TTI considers to be of particular importance at this time. NWC respectfully requests that the NRC Project Officer determine the status of these data requests and notify us of pending action and schedules.

Submission of this update report completes the contract deliverable for Subtask 2.2 at this time. TTI will update the Data Management and Inventory Report on a semi-annual basis, as directed in the current contract. NWC notes for the information of the Project Officer that the next update is the last scheduled for BWIP under the current contract.

If you have any questions concerning this letter or the attached reports, please contact me immediately.

Respectfully submitted,
NUCLEAR WASTE CONSULTANTS, INC.

Mark J. Logsdon, Project Manager

Att: BWIP Data Management and Inventory, Semi-Annual Update Report

cc: US NRC - Director, NMSS (ATTN: PSB)
DWM (ATTN: Division Director) - 2
Mary Little, Contract Administrator
WMGT (ATTN: Branch Chief)

bc: M. Galloway, TTI
J. Minier, DBS
L. Davis, WWL

TERRA THERMA, INC.

WATER CONSULTANTS AND ENGINEERS

8341 S. Sangre de Cristo Rd., Suite 14, Littleton, CO 80127 (303) 973-7492

March 6, 1987

Nuclear Waste Consultants
8341 S. Sangre de Cristo Road
Littleton, Colorado 80127

Att: Mark Logsdon, Project Manager

Re: Subtask 2.2 Update

Dear Mr. Logsdon:

This document constitutes the letter report required in our subcontract to Nuclear Waste Consultants (NWC) for the Subtask 2.2, Data-Base Update. As we have discussed, the BWIP team has not received any new data from either the NRC or DOE since the last Data-Base Update report. Therefore, other than proceeding with QA checks of the existing data-bases, we have not altered the databases since the last report. However, we have attached copies of the most recent data-bases to be forwarded to the NRC (Attachment A), since they do reflect minor changes resulting from the QA check.

We would like to use this document to request information which has not yet been received. A large portion of this information was shown to us at the BWIP data review, at which time we requested copies via the data request forms supplied by DOE. We have not received any of the documents or any comments regarding the status of our requests. In addition, there are documents which have been available from DOE for some time that we have requested and not yet received. Please refer to Attachment B for a complete list of data/documents we would like to receive in order to continue work on the BWIP data-base system.

During the remainder of the contract and specifically before the next update, the BWIP team plans to update the data-bases in the areas where DOE is actively collecting more information, such as water levels and subsurface geology. In addition, we would hope that additional information from hydrology testing will be made available during the upcoming 6 months. The team plans to initiate a new data-base which will compile stratigraphic, geophysical, hydrologic testing, and well completion information for each of the major deep wells. It is hoped that this information can be placed on one sheet for each well to a provide a quick reference for both NWC and the NRC. This will be an important step in preparing a mini-report exploring the consistency of DOE geologic and hydrologic correlations.

In addition to the tasks described above, the BWIP team proposes to select one or two important wells and request all information from DOE regarding the installation and testing of these wells. The purpose of this proposed task is to develop a set of minimum guidelines by which NRC can judge the adequacy of the data record for any given well. The recent data review pointed out both the large amount of written documentation that can be available from a given well installation, and the difficulty in reviewing the adequacy of this information when it is scattered among numerous record books. Rather than review all information from every well, we propose to use selected wells to develop a model or system by which existing wells can be judged, and more importantly, guidelines for recording information from the installation of all new wells. We have not yet determined what man-hours might be required or be suitable for this task. I would like to meet with you to discuss this proposal.

If we can provide any additional information or clarification, please do not hesitate to call us.

Sincerely,
TERRA THERMA, INC.

Michael Galloway

Michael Galloway
Project Manager

ATT

ATTACHMENT A

DATA BASE LEGEND

(The legend applies to abbreviations used in all data bases.)

LEGEND

SM	= SADDLE MOUNTAINS	BG	= BEST GUESS
RR	= RATTLESNAKE RIDGE	COND	= CONDUCTIVITY
POM	= POMONA	TEMP	= TEMPERATURE
ESQ	= ESQUATZEL	TRAN	= TRANSMISSIVITY
CC	= COLD CREEK	MP ELEV	= MAP POINT ELEVATION (NEGATIVE NUMBERS INDICATE FEET ABOVE SEA LEVEL)
UMAT	= UMATILLA		
MAB	= MABTON		
WN	= WANAPUM		
PR	= PRIEST RAPIDS	Q	= FLOWRATE
RZ	= ROZA	DIST	= DISTANCE (R)
FR	= FRENCHMAN SPRINGS	PROD	= PRODUCTION HOLE
SENT	= SENTINEL GAP	OBS	= OBSERVATION HOLE
VT	= VANTAGE	TEST	= TYPE TEST DONE
		QA	= QUALITY ASSURANCE
GR	= GRANDE RONDE		
RC	= ROCKY COULEE		
CH	= COHASSETT	ERR	= INDICATE
BK	= BIRKETT	NA	= UNAVAILABLE DATA
UM	= UMTANUM	?	=

CE	= COLONNADE ENTABLATURE
COMP	= COMPOSITE INTERBED/INTERFLOW
FB	= FLOW BOTTOM
FRAC	= FRACTURE
FT	= FLOWTOP
IB	= INTERBED
IF	= INTERFLOW
UN	= UNCONFINED

MEASURING TYPES:

U	= UPHOLE INSTRUMENTS
D	= DOWNHOLE INSTRUMENTS

DEPTHS IN GEOLOGICAL DATA ARE GIVEN TO TOP OF FORMATION

MULTIPLE BOREHOLE DATABASE HAS A RATINGS COLUMN BASED ON ROCKWELL'S RATINGS (SD-BWI-DP-051)

PMC	= PERCENT MODERN CARBON	pH	= FIELD pH
ORP	= OX-REDOX POTENTIAL	Tu	= TRITIUM UNITS
su	= STANDARD UNITS	cm	= CENTIMETER
mv	= MILLIVOLT	mg	= MILLIGRAM
umho	= MILLIMHO	l	= LITER

HYDRAULIC HEAD DATA 1985/1986

1 PAGE

IDENTIFIER						WATER LEVEL ELEVATIONS (FEET ABOVE MEAN SEA LEVEL)															
	INTERVAL		STRATA																		
TEST HOLE	TOP	BOTTOM	GROUP	UNIT	STRUCTURE	JAN85	FEB85	MAR85	APR85	MAY85	JUN85	JUL85	AUG85	SEPT85	OCT85	NOV85	DEC85	JAN86	FEB86	MAR86	APR86
DB-12	524.0	707.0	WN	PR	COMP	398.0	401.5	401.7	400.2	399.6	400.9	400.1	397.6	396.5	396.2	397.1	ERR	ERR	ERR	ERR	ERR
DB-14	1038.0	1218.0	WN	PR	FT	399.8	400.0	400.2	400.4	400.4	400.4	400.4	400.5	400.5	400.5	400.1	ERR	ERR	ERR	ERR	ERR
DC-04	2767.0	2947.0	GR	RC	FT	438.3	431.7	428.3	425.9	424.2	422.4	420.8	419.8	419.0	417.9	417.3	ERR	ERR	ERR	ERR	ERR
DC-16C	1706.0	1756.0	WN	PR	FT	410.7	433.7	424.6	419.2	415.7	413.2	411.3	409.7	408.5	407.5	406.7	ERR	ERR	ERR	ERR	ERR
DC-19A	497.0	577.0	UN	RINGOLD	UN	451.0	451.0	451.0	450.9	450.8	450.8	450.8	450.7	450.6	450.4	450.4	ERR	ERR	ERR	ERR	ERR
DC-19A	NA	NA	SM	RR	IB	439.7	440.2	440.8	441.0	441.1	441.2	441.3	441.3	441.4	441.4	441.4	ERR	ERR	ERR	ERR	ERR
DC-19C	NA	NA	GR	RC	FT	401.4	401.5	401.6	401.6	401.7	401.7	401.8	401.8	401.8	401.8	401.8	401.9	402.0	402.0	402.0	402.0
DC-19C	NA	NA	WN	FR	FT	400.4	400.4	400.4	400.5	400.5	400.5	400.6	400.6	400.6	400.6	400.1	400.3	400.3	400.4	400.3	400.4
DC-19C	NA	NA	WN	PR	FT	399.9	400.0	400.1	400.1	400.2	400.2	400.2	400.2	400.1	400.5	399.8	400.0	400.0	400.1	400.0	400.1
DC-19C	NA	NA	GR	UM	FT	401.9	402.0	402.0	402.1	402.1	402.1	402.2	402.2	402.2	402.2	402.2	402.2	402.2	402.2	402.2	402.2
DC-19C	NA	NA	WN	FR	FT	400.4	400.4	400.4	400.5	400.5	400.5	400.6	400.6	400.6	400.6	400.1	400.3	400.3	400.4	400.3	400.4
DC-19C	NA	NA	GR	CH	FT	401.1	401.2	401.2	401.2	401.3	401.3	401.4	401.4	401.4	401.4	401.1	401.2	401.2	401.2	401.2	401.2
DC-19D	NA	NA	WN	MARTON	IB	421.3	421.4	421.5	421.6	421.6	421.6	421.7	421.7	421.8	421.4	421.6	ERR	ERR	ERR	ERR	ERR
DC-20A	NA	NA	SM	RR	IB	444.3	444.4	444.4	444.4	444.5	444.5	444.5	444.5	444.5	444.5	444.4	ERR	ERR	ERR	ERR	ERR
DC-20A	NA	NA	UN	RINGOLD	UN	454.8	454.9	454.9	454.8	454.8	454.8	454.8	454.8	454.8	454.7	454.7	ERR	ERR	ERR	ERR	ERR
DC-20C	NA	NA	GR	CH	FT	404.2	404.4	404.5	404.6	404.6	405.0	404.9	404.9	405.0	405.0	404.9	405.0	405.0	405.2	406.4	405.3
DC-20C	NA	NA	WN	FR	FT	401.4	401.5	401.6	401.6	401.7	401.7	401.7	401.7	401.6	401.8	401.0	401.5	401.5	401.6	401.4	401.6
DC-20C	NA	NA	GR	UM	FT	405.3	405.4	405.6	405.6	405.7	406.0	405.9	406.0	406.0	405.9	405.9	406.0	406.1	406.2	406.5	406.4
DC-20C	NA	NA	WN	PR	FT	401.4	401.5	401.6	401.6	401.7	401.7	401.7	401.7	401.6	401.8	401.0	401.5	401.5	401.6	401.4	401.6
DC-20C	NA	NA	WN	FR	FT	401.5	401.6	401.4	401.8	401.8	401.8	401.9	401.9	401.6	402.9	401.2	401.6	401.7	401.7	401.5	401.7
DC-20C	NA	NA	GR	RC	FT	404.3	404.5	404.5	404.7	404.7	405.2	405.1	405.0	405.2	405.2	405.1	405.1	405.2	405.3	406.6	405.5
DC-20D	NA	NA	WN	MARTON	IB	414.2	414.3	414.3	414.3	414.2	414.1	414.1	414.1	414.1	414.1	414.1	ERR	ERR	ERR	ERR	ERR
DC-22A	NA	NA	SM	RR	IB	442.3	442.3	442.4	442.4	442.3	442.3	442.4	442.4	442.3	442.2	442.2	ERR	ERR	ERR	ERR	ERR
DC-22A	NA	NA	UN	RINGOLD	UN	443.7	442.2	443.5	443.5	443.6	443.5	443.5	443.5	443.4	443.2	443.2	ERR	ERR	ERR	ERR	ERR
DC-22C	NA	NA	WN	FR	FT	401.2	401.2	401.2	401.3	401.3	401.3	401.4	401.5	401.4	401.4	401.4	401.2	401.3	401.3	401.3	401.3
DC-22C	NA	NA	WN	PR	FT	400.5	400.5	400.6	400.7	400.7	400.7	400.7	400.7	400.6	400.7	400.5	400.5	400.5	400.5	400.4	400.6
DC-22C	NA	NA	GR	RC	FT	402.5	402.7	403.0	403.2	403.4	403.5	403.8	403.9	404.0	404.1	404.2	404.4	404.5	404.6	404.6	404.8
DC-22C	NA	NA	GR	UM	FT	403.9	404.0	404.1	404.2	404.2	406.4	405.9	405.2	404.9	404.8	404.8	404.9	404.6	404.7	404.8	404.9
DC-22C	NA	NA	WN	FR	FT	400.8	400.8	400.9	401.0	401.0	401.0	401.0	401.0	401.0	400.9	400.4	400.8	400.8	400.9	400.7	400.9
DC-22C	NA	NA	GR	CH	FT	403.4	403.5	403.8	403.9	403.9	405.8	405.7	405.2	404.9	404.8	404.8	404.6	404.7	404.9	404.9	405.0
DC-22D	NA	NA	WN	MARTON	IB	410.4	410.4	410.5	410.6	410.6	410.6	410.6	410.6	410.4	410.2	410.1	ERR	ERR	ERR	ERR	ERR
MCGEE	NA	NA	GR	RC	FT	602.3	602.3	602.4	602.5	602.5	602.7	602.4	602.5	602.4	602.2	602.3	ERR	ERR	ERR	ERR	ERR
OBRIAN	597.0	707.0	WN	FR	FT	913.4	914.8	916.0	916.9	914.0	907.0	903.8	900.0	899.5	900.8	903.7	ERR	ERR	ERR	ERR	ERR
RRL-2C	NA	NA	GR	GR-5(BRK.)	IF	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	404.6	404.0	400.8	404.3	404.1	404.3	404.4	404.6
RRL-2C	NA	NA	GR	CH	IF	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	402.9	401.9	383.0	404.2	403.6	403.1	402.8	402.4
RRL-2C	NA	NA	GR	GR-5(BRK.)	FT	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	405.5	404.0	404.8	404.7	404.8	404.9	405.0	405.1
RRL-2C	NA	NA	GR	RC	IF	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	402.9	403.1	395.4	403.6	402.9	402.5	402.3	402.2
RRL-2C	NA	NA	GR	CH	FT	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	402.9	401.0	386.2	402.8	401.3	400.1	399.2	398.4
RRL-2C	2796.0	2949.0	GR	RC	FT	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	404.6	404.4	404.8	404.3	404.3	404.6	404.9	404.8

IDENTIFIER TEST HOLE	INTERVAL TOP	INTERVAL BOTTOM	WATER LEVEL ELEVATIONS (FEET ABOVE MEAN SEA LEVEL) MAY86	JUN86	JUL86	AUG86	SEPT86	OCT86	NOV86	DEC86	CORRECTED FOR ATM? (Y/N)	REFERENCE	REFERENCE CHECK	COMMENTS
DB-12	524.0	707.0	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	N	NWC-1518/NWC-1261	NWC-1096(WL:J,F,M)	NA
DB-14	1038.0	1218.0	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	N	NWC-1518/NWC-1261	NWC-1096(WL:F,M)	NA
DC-04	2767.0	2947.0	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	N	NWC-1518/NWC-1261	NWC-1096(WL:J,F,M)	NA
DC-16C	1706.0	1756.0	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	N	NWC-1518/NWC-1261	NWC-1096(WL:J,F,M)	NA
DC-19A	497.0	577.0	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518	NA	NA
DC-19A	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518	NA	NA
DC-19C	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518/NWC-1636	NA	NA
DC-19C	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518/NWC-1636	NA	SENTINEL GAP FT
DC-19C	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518/NWC-1636	NA	ROSALIA FT
DC-19C	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518/NWC-1636	NA	NA
DC-19C	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518/NWC-1636	NA	GINKGO FLOW TOP
DC-19C	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518/NWC-1636	NA	NA
DC-19D	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518	NA	NA
DC-20A	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518	NA	NA
DC-20A	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518	NA	NA
DC-20C	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518/NWC-1636	NA	NA
DC-20C	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518/NWC-1636	NA	SENTINEL GAP FT
DC-20C	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518/NWC-1636	NA	IF/FT??READINGS AT SAME INTERVAL?
DC-20C	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518/NWC-1636	NA	ROSALIA FT
DC-20C	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518/NWC-1636	NA	GINKGO FLOW TOP
DC-20C	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518/NWC-1636	NA	NA
DC-20D	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518	NA	NA
DC-22A	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518	NA	NA
DC-22A	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518	NA	NA
DC-22C	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518/NWC-1636	NA	GINKGO FLOW TOP
DC-22C	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518/NWC-1636	NA	ROSALIA FT
DC-22C	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518/NWC-1636	NA	NA
DC-22C	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518/NWC-1636	NA	NA
DC-22C	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518/NWC-1636	NA	SENTINEL GAP FT
DC-22C	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518/NWC-1636	NA	NA
DC-22D	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	Y	NWC-1518	NA	NA
MCGEE	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	N	NWC-1518	NA	NA
DBR16N	597.0	707.0	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	N	NWC-1518/NWC-1261	NA	NA
RRL-2C	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	N/Y	NWC-1518/NWC-1636	NA	ATM. COND. CORRECTION DIFF.
RRL-2C	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	N/Y	NWC-1518/NWC-1636	NA	ATM. COND. CORRECTION DIFF.
RRL-2C	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	N/Y	NWC-1518/NWC-1636	NA	ATM. COND. CORRECTION DIFF.
RRL-2C	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	N/Y	NWC-1518/NWC-1636	NA	ATM. COND. CORRECTION DIFF.
RRL-2C	NA	NA	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	N/Y	NWC-1516/NWC-1636	NA	ATM. COND. CORRECTION DIFF.
RRL-2C	2796.0	2947.0	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	N/Y	NWC-1518/NWC-1261/NWC-1636	NA	ATM. COND. CORRECTION DIFF.

GEOCHEMICAL DATA

1 PAGE

GEOCHEMICAL TEST DATA

IDENTIFIER											MAJOR CATIONS					MAJOR ANIONS			
	TEST INTERVAL						degrees(C)	(umho/cm)	(mv)	(su)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
TEST HOLE	TOP	BOTTOM	SAMPLING TYPE	GROUP	UNIT	BASALT STRUCTURE	TEMP	COND	ORP	pH	K	Na	Ca	Mg	SiO2	FIELD ALK AS CACO3	SO4	Cl	F
DC-1	362	712	PUMP	SM	PR	NA	6.5	810	-160	9.14	20.9	162	2.02	0.2	29.8	190	1.6	133	8.5
DC-1	362	2242	PUMP	SM/GR	RZ	NA	21.8	683	-385	9.32	15.5	140	1.90	0.1	33.7	155	2	123	9
DC-1	362	416	SWAB	SM	FR	NA	29.1	1408	NA	8.3	35.4	284	9.50	0.2	26.8	93	21	346	15
DC-1	362	1199	PUMP	SM/WN	U.GR/RC	NA	26.9	1856	-405	8.76	25.5	377	2.90	0.1	35.0	86	1.5	508	21.6
DC-1	362	890	PUMP	SM/WN	CM	FB	23.4	1616	-290	9.71	13.8	337	2.22	0.1	44.6	165	4.2	404.5	20
DC-1	450	530	SWAB	SM	CM	FB	19.5	1632	-365	9.6	13.5	352	2.40	0.1	49.4	149	0.96	418	14
DC-1	540	620	SWAB	SM	UM	FT	29.4	1740	-220	9.41	9.51	358	1.70	0.1	48.3	136	1.7	450	18.1
DC-1	634	726	SWAB	SM	UM	NA	25.9	NA	NA	9.34	8.41	333	2.80	0.2	35.8	132	3.6	384	17.2
DC-1	720	810	SWAB	SM	HIGH MG	NA	22.3	1747	-300	9.78	5.82	361	1.84	0.1	37.2	135	2.4	454.5	20.1
DC-1	980	1120	SWAB	WN	RR	IB	21.0	494	-330	8.32	4.2	104	10.80	4.9	22.2	224	22.1	3.62	0.48
DC-1	1090	1280	SWAB	WN	SELAM	IB	24.1	293	-245	7.25	6.44	47	14.90	3.5	9.9	148	4.43	3.58	0.47
DC-1	1330	1520	SWAB	WN	MAB	IB	25.4	340	-310	8.86	11.6	69	6.00	1.5	33.9	184	4.6	5.1	0.7
DC-1	2600	2780	SWAB	GR	PR/RZ	COMP	28.7	795	-450	9.14	17	165	2.00	-0.1	38.3	150	2	146	9.5
DC-1	3146	3236	SWAB	GR	L.RZ/U.FR	COMP	21.5	878	-405	9.43	18.2	180	1.70	-0.1	36.1	151	1.200	170	9.9
DC-1	3166	3196	SWAB	GR	FR	COMP	23.8	697	-335	9.39	20.3	142	1.67	-0.1	40.8	144	1.900	110	13
DC-1	3206	3246	SWAB	GR	FR	COMP	22.4	1236	-425	9.44	34.4	232	4.80	-0.1	37.7	103	6.700	308	10.9
DC-1	3320	3451	SWAB	GR	FR	COMP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DC-1	4080	4283	SWAB	GR	FR	COMP	31.6	1230	-170	9.07	30.2	217	3.90	-0.1	33.7	108	6.100	263	12.3
DC-16A	668	835	PUMP	SM	FR	COMP	34.2	1673	NA	9.11	32	324	3.90	-0.1	37.9	90	2.300	442	24.1
DC-16A	928	1021	PUMP	SM	FR	COMP	26.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DC-16A	1395	1568	PUMP	SM	FR	COMP	34.0	1663	-375	9.3	29.4	323	4.40	-0.1	34.0	126	2.600	451	26.1
DC-16A	1760	1828	PUMP	WN	VT/U.GR	COMP	23.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DC-16A	1892	2000	WINDMILL	WN	VT/U.GR	COMP	23.4	1738	-390	9.46	20	346	2.70	-0.1	NA	150	8.400	414	27.6
DC-16A	2105	2156	WINDMILL	WN	RC	COMP	25.0	1746	-350	9.51	24.3	355	2.60	-0.1	45.9	141	5.500	422	26.6
DC-16A	2201	2261	WINDMILL	WN	POM	MIXED	NA	314	NA	8.1	8.8	60	4.70	1.2	11	122	19.000	11	0.5
DC-16A	2266	2371	WINDMILL	WN	POM/UMAT	MIXED	NA	331	NA	8.5	8	79	2.20	0.3	25	180	0.400	3.9	1
DC-16A	2266	2371	AIRLIFT	WN	POM/MAB	MIXED	NA	580	NA	9.62	9.6	124	2.00	0.4	34	168	NA	68	10
DC-16A	2476	2559	PUMP	WN	POM/U.RZ	MIXED	NA	664	NA	9.6	10	142	2.40	0.1	37	171	1.800	85	13
DC-16A	2585	2632	PUMP	WN	POM/RC FT	MIXED	NA	707	NA	9.6	11	141	2.50	0.1	38	171	5.600	83	15
DC-16A	2565	2632	PUMP	WN	POM/ESO F	MIXED	NA	353	NA	8.9	8.4	77	2.20	0.3	17	161	12.000	7.7	0.8
DC-16A	2670	2822	PUMP	WN/GR	ESO/CC	MIXED	NA	344	NA	8.6	7.8	79	2.10	0.3	21	180	NA	4.2	1
DC-16A	2671	2730	WINDMILL	WN/GR	CC/UMAT	MIXED	NA	402	NA	8.9	9.9	90	1.70	0.4	26	192	NA	13	1.7
DC-16A	2836	2946	WINDMILL	GR	UMAT	IF	NA	552	NA	9.3	14	114	1.70	0.4	27	182	1.600	49	7.5
RRL-2	1574	1714	AIRLIFT	WN	PR	NA	NA	773	NA	9.7	10	164	0.90	0.4	42	157	2.000	120	16
RRL-2	1735	1773	AIRLIFT	WN	L.PR/RZ	NA	NA	904	NA	10.48	12	177	5.80	0.1	42	153	10.000	120	20
RRL-2	2244	2644	AIRLIFT	WN	L. RZ/FR	NA	NA	839	NA	9.94	15	163	5.00	0.1	38	168	12.000	110	20
RRL-2	2719	2913	AIRLIFT	GR	CM FB/DOWFB/MIXED		NA	408	NA	9.1	8	87	1.20	0.2	22	179	3.600	13	2
RRL-2	3247	3344	WINDMILL	GR	UM FB/DOWFB/MIXED		NA	867	NA	10.12	3.3	182	0.80	NA	54	208	13.000	98	21
RRL-2	3247	3344	WINDMILL	GR	UM FB/DOWFB/MIXED		NA	860	NA	9.78	3.9	181	0.70	0.1	56	208	12.000	94	20
RRL-2	3568	3781	WINDMILL	GR	NA	NA	NA	852	NA	9.72	5.9	176	0.60	0.1	49	202	10.000	98	20
RRL-2	3781	3827	WINDMILL	GR	NA	NA	NA	800	NA	9.7	4.7	166	0.20	0.1	29	180	14.000	90	18.1
RRL-2	3837	3889	WINDMILL	GR	NA	NA	NA	630	NA	9.1	3	134	0.20	NA	31	161	21.000	68	11

GEOCHEMICAL TEST DATA

IDENTIFIER			TRACERS						STABLE ISOTOPES					RADIOMETRIC ISOTOPES		GASES				
	TEST INTERVAL		(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(per mil)	(per mil)	(per mil)	(per mil)	(per mil)	(PMC)	(Tu)	(mol %)	(mol %)	(mol %)	(mol %)	(mol %)
TEST HOLE	TOP	BOTTOM	TOC	B	Zn	Fe	Mn	Mo	dO-18	dD	bicarb dC-13(b)	methane dC-13(m)	dS-34	C-14	H-3	CH4	N2	Ar	H2	CO2
DC-1	362	712	5.49	0.380	0.05	6.45	0.083	0.1	-17.0	-134	NA	NA	NA	NA	1.19	NA	NA	NA	NA	NA
DC-1	362	2242	6.08	0.360	-0.02	0.36	0.010	0.12	-16.0	-136	8.5	NA	NA	1.2	0.98	83.3	16.2	0.25	0.22	NA
DC-1	362	416	67.99	1.100	-0.01	0.11	0.020	0.05	-13.2	-120	-0.3	NA	2.5	22.8	6.34	NA	NA	NA	NA	NA
DC-1	362	1190	2.65	2.640	-0.01	0.82	0.040	0.13	-11.5	-114	15.4	NA	1.8	24.3	0.9	NA	NA	NA	NA	NA
DC-1	362	890	11.7	3.505	-0.01	0.13	0.005	0.28	-11.6	-116	15.3	NA	7.8	10.2	4.44	71.9	22.2	0.27	0.012	0.04
DC-1	450	530	2.81	2.910	-0.01	0.08	0.004	0.29	-10.8	-112	19.7	NA	11.2	8.3	0.79	98.7	1.3	0.02	0.02	NA
DC-1	540	620	6.14	3.480	-0.01	0.07	0.001	0.28	-11.2	-110	16.9	-37.76	2.1	6.3	0.86	97.5	2	0.04	0.16	NA
DC-1	636	726	19.9	3.120	0.02	0.13	0.068	0.24	NA	NA	NA	-38.35	NA	NA	NA	96.2	3.6	0.06	0.02	NA
DC-1	720	810	4.68	3.495	-0.01	0.06	0.004	0.26	-11.1	-114	16.4	-38.28	5.8	11.2	0.68	98.2	1.72	0.023	0.02	0.01
DC-1	980	1120	28.48	-0.02	-0.02	0.08	0.018	-0.02	-17.9	-142	-11.1	NA	-1.2	20.2	3.01	NA	NA	NA	NA	NA
DC-1	1090	1280	3.41	-0.02	-0.02	0.07	0.029	-0.02	-18.2	-144	-14.3	NA	33.1	20.3	1.45	-0.0	98.5	1.2	-0.01	0.3
DC-1	1330	1520	9.74	0.05	-0.01	0.09	NA	-0.02	-18.3	-145	-11.8	NA	8.6	7.7	0.92	9.9	88.5	1.1	-0.01	0.41
DC-1	2600	2780	8.44	0.5	-0.01	0.1	-0.003	0.15	-16.4	-138	9.4	-44.88	7.9	4.7	0.85	92.4	7.4	0.14	-0.01	0.03
DC-1	3146	3236	3.55	0.6	-0.01	0.07	NA	0.2	-16.0	-136	10.7	NA	NA	3.2	0.4	94.4	5.48	0.13	0.02	0.01
DC-1	3166	3196	4.91	0.63	-0.01	0.05	0.004	0.1	-16.4	-137	-2.7	-63.99	8.9	5.0	0.43	69.0	30.2	0.46	0.18	0.12
DC-1	3206	3246	8.61	0.61	-0.01	0.07	-0.003	0.13	-14.8	-124	5.4	-51.82	9.3	16.1	0.46	96.2	3.58	0.09	-0.01	0.01
DC-1	3320	3451	NA	NA	NA	NA	NA	NA	NA	NA	NA	-52.88	NA	NA	NA	92.9	6.05	0.12	0.04	-0.01
DC-1	4080	4283	11.18	0.54	-0.01	1.81	0.080	0.04	-14.4	-124	3.8	NA	8.5	30.7	0.53	89.4	8.82	0.14	NA	0.01
DC-16A	668	835	6.9	1.43	-0.01	0.03	-0.003	0.18	-12.1	-112	NA	-46.94	NA	NA	0.34	96.6	3.28	0.06	0.01	0.06
DC-16A	928	1021	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.0	0.7	-0.1	0.2	-0.01
DC-16A	1395	1568	6.8	1.5	-0.01	9.3	0.140	0.15	NA	NA	NA	NA	NA	NA	0.3	NA	NA	NA	NA	NA
DC-16A	1760	1828	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	98.3	1.67	0.03	-0.01	-0.01
DC-16A	1892	2000	20.9	2.6	-0.01	0.1	0.007	0.25	-11.5	-114	5.1	-44.79	11.2	NA	0.85	98.0	1.78	0.03	0.04	0.02
DC-16A	2105	2156	12.32	2.57	-0.01	0.08	0.007	0.24	-11.8	-105	NA	-47.78	NA	NA	0.7	98.4	1.59	0.03	-0.01	-0.01
DC-16A	2201	2261	NA	0.06	NA	0.25	NA	NA	-17.2	-145	-13.3	NA	NA	NA	23	NA	NA	NA	NA	NA
DC-16A	2266	2371	NA	0.06	NA	0.05	NA	NA	NA	NA	-14.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
DC-16A	2266	2371	NA	0.56	NA	0.05	NA	NA	NA	NA	-2.9	NA	NA	NA	1.1	NA	NA	NA	NA	NA
DC-16A	2476	2559	NA	0.74	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	NA	NA	NA	NA
DC-16A	2585	2632	NA	0.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DC-16A	2585	2632	NA	0.05	NA	0.05	NA	NA	NA	NA	-14.2	NA	NA	NA	5.3	NA	NA	NA	NA	NA
DC-16A	2670	2822	NA	0.06	NA	0.1	NA	NA	-18.3	-154	-14.3	NA	NA	NA	2.2	NA	NA	NA	NA	NA
DC-16A	2671	2730	NA	0.1	NA	1.4	NA	NA	-17.7	-150	-10.5	NA	NA	NA	2.2	NA	NA	NA	NA	NA
DC-16A	2836	2946	NA	0.45	NA	0.57	NA	NA	-16.9	-142	-4.0	NA	NA	NA	2.3	NA	NA	NA	NA	NA
RRL-2	1574	1714	NA	0.94	NA	0.03	NA	NA	-15.5	-138	15.4	NA	NA	NA	6.2	NA	NA	NA	NA	NA
RRL-2	1735	1773	NA	0.73	NA	NA	NA	NA	-15.6	-136	13.2	NA	NA	NA	1.3	NA	NA	NA	NA	NA
RRL-2	2244	2644	NA	NA	NA	0.2	NA	NA	-15.9	-139	1.4	NA	NA	NA	108	NA	NA	NA	NA	NA
RRL-2	2719	2913	NA	NA	NA	1	NA	NA	-17.8	-151	-12.6	NA	NA	NA	9.6	NA	NA	NA	NA	NA
RRL-2	3247	3344	NA	0.72	NA	0.1	NA	NA	-16.0	-138	-7.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
RRL-2	3247	3344	NA	0.66	NA	0.15	NA	NA	-15.9	-148	-7.6	NA	NA	NA	2	NA	NA	NA	NA	NA
RRL-2	3568	3781	NA	0.17	NA	0.65	NA	NA	-15.9	-138	-7.3	NA	NA	NA	4.4	NA	NA	NA	NA	NA
RRL-2	3781	3827	NA	0.66	NA	1.8	NA	NA	NA	-138	-7.0	NA	NA	NA	17.8	NA	NA	NA	NA	NA
RRL-2	3837	3899	NA	0.38	NA	2.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

IDENTIFIER				
TEST HOLE	TEST INTERVAL TOP	TEST INTERVAL BOTTOM	REFERENCE	COMMENTS
DC-1	362	712	NWC-1619	
DC-1	362	2242	NWC-1619	
DC-1	362	416	NWC-1619	
DC-1	362	1190	NWC-1619	
DC-1	362	890	NWC-1619	
DC-1	450	530	NWC-1619	SAMPLING EVENT B4-7
DC-1	540	620	NWC-1619	
DC-1	636	726	NWC-1619	
DC-1	720	810	NWC-1619	
DC-1	980	1120	NWC-1619	
DC-1	1090	1280	NWC-1619	
DC-1	1330	1520	NWC-1619	
DC-1	2600	2780	NWC-1619	
DC-1	3146	3236	NWC-1619	B2-188
DC-1	3166	3196	NWC-1619	B2-124
DC-1	3206	3246	NWC-1619	
DC-1	3320	3451	NWC-1619	B2-214B .86% O2
DC-1	4080	4283	NWC-1619	
DC-16A	668	835	NWC-1619	
DC-16A	928	1021	NWC-1619	
DC-16A	1395	1568	NWC-1619	
DC-16A	1760	1828	NWC-1619	
DC-16A	1892	2000	NWC-1619	
DC-16A	2105	2156	NWC-1619	ALK. IS FROM LAB
DC-16A	2201	2261	NWC-1619	pH IS FROM LAB
DC-16A	2266	2371	NWC-1619	pH IS FROM LAB
DC-16A	2266	2371	NWC-1619	pH(lab)=9.2
DC-16A	2476	2559	NWC-1619	pH(lab)=9.4
DC-16A	2585	2632	NWC-1619	pH(lab)=9.5
DC-16A	2585	2632	NWC-1619	pH IS FROM LAB
DC-16A	2670	2822	NWC-1619	pH(lab)=8.6
DC-16A	2671	2730	NWC-1619	pH IS FROM LAB
DC-16A	2836	2946	NWC-1619	pH IS FROM LAB
RRL-2	1574	1714	NWC-1619	pH(LAB)=9.5
RRL-2	1735	1773	NWC-1619	pH(LAB)=10.2
RRL-2	2244	2644	NWC-1619	pH(LAB)=9.7
RRL-2	2719	2913	NWC-1619	pH(LAB)=8.9
RRL-2	3247	3344	NWC-1619	pH(LAB)=9.6
RRL-2	3247	3344	NWC-1619	pH(LAB)=9.9
RRL-2	3568	3781	NWC-1619	pH(LAB)=9.9
RRL-2	3781	3827	NWC-1619	pH(LAB)=9.7
RRL-2	3837	3889	NWC-1619	pH(LAB)=8.9

GEOLOGICAL STATISTICS

PAGES 1 THROUGH 3

DEPTHS ARE IN METERS

TEST	HANFORD COORD		MP	SADDLE MOUNTAINS		WANAPUM						GRANDE RONDE									
						PRIEST RAPIDS		ROZA		FRENCHMAN SPRINGS		GR (ABOVE RC)		ROCKY COULEE				GR (BETWEEN RC & CH)			
HOLE	N/S	E/W	ELEV	DEPTH	% IF	DEPTH	% IF	DEPTH	% IF	DEPTH	% IF	DEPTH	% IF	IF DEPTH	IF FRAC	CE DEPTH	CE FRAC	IF DEPTH	IF FRAC	CE DEPTH	CE FRAC
DC-7/8	N14,956	W14,862	-166.1	214.0	25.0	458.7	31.6	545.6	22.2	609.9	9.5	818.1	9.5	857.1	ERR	860.1	ERR	904.0	ERR	904.6	ERR
RRL-14	N41,473	W91,228	-199.6	207.9	43.3	451.1	38.1	559.9	14.2	613.6	14.6	850.1	23.0	884.5	ERR	888.2	ERR	888.2	ERR	888.2	ERR
RRL-6	N33,507	W88,816	-196.0	198.4	33.5	451.1	36.0	561.1	13.3	615.8	11.9	841.7	13.9	891.2	ERR	894.6	ERR	894.6	ERR	894.6	ERR
DC-4	N49,386	W85,208	-227.1	189.9	37.1	421.8	37.0	532.5	1.2	584.0	12.3	811.7	12.8	852.2	ERR	860.8	ERR	904.0	ERR	904.0	ERR
RRL-2	N39,212	W84,040	-193.2	184.4	31.9	426.4	36.2	533.2	5.1	585.8	7.9	817.8	2.8	860.5	ERR	865.6	ERR	865.6	ERR	865.6	ERR
DC-6	N54,137	W17,721	-122.5	108.2	7.1	302.7	44.5	390.8	15.8	443.2	7.2	656.8	3.0	689.8	ERR	691.3	ERR	733.0	ERR	734.6	ERR
DC-14	N84,489	W33,860	-120.1	107.9	23.1	296.0	34.7	394.4	9.2	454.5	9.4	654.7	2.8	665.4	ERR	665.4	ERR	721.8	ERR	723.0	ERR
DC-15	S15,134	E14,990	-122.5	94.8	47.4	309.7	21.5	378.0	33.3	429.0	17.0	645.4	20.7	690.4	ERR	699.2	ERR	744.3	ERR	744.6	ERR
DDH-3	S30,383	E15,232	-121.9	91.1	22.0	340.8	27.5	393.8	26.3	445.9	14.7	669.6	16.0	722.7	ERR	723.3	ERR	784.6	ERR	784.9	ERR
DH-5	N114,000	W127,000	-284.1	64.9	32.3	173.7	36.2	277.4	3.6	319.4	4.4	513.9	25.9	551.4	ERR	553.5	ERR	598.9	ERR	600.2	ERR
DC-12	N10,125	W53,687	-157.3	64.0	22.6	303.0	37.1	408.1	6.2	463.0	14.6	683.8	1.7	736.1	ERR	742.5	ERR	784.3	ERR	784.9	ERR
DC-2	N47,968	W48,255	-174.3	62.5	28.2	254.4	32.1	349.0	14.8	410.6	14.1	623.6	12.7	659.9	ERR	661.1	ERR	706.5	ERR	706.5	ERR
DH-4	N117,000	W10,000	-280.4	6.4	6.0	122.2	16.7	189.3	11.5	246.6	25.0	450.8	45.3	484.6	ERR	487.1	ERR	500.5	ERR	502.9	ERR
WW-6	S8,850	W63,170																			
RSH-1	S0	W112,000																			
RRL-9	N39,665	W79,978																			
RRL-8	N47,410	W91,631																			
RRL-7	N45,720	W84,815																			
RRL-5	N42,314	W88,475																			
RRL-4	N35,498	W78,251																			
RRL-3	N44,578	W84,174																			
RRL-15	N39,200	W78,750																			
RRL-12	N21,510	W83,399																			
RRL-11	N35,247	W94,608																			
RRL-10	N37,029	W88,639																			
O'BRIAN	N52,647	W114,053																			
MCGEE	N52,747	W103,405																			
LEMCKE	N52,000	W119,500																			
FORD	N52,993	W111,403																			
ENYEART	N50,285	W111,396																			
DH-9B	N53,873	W17,345																			
DH-9A	N43,049	W41,716																			
DH-9	N49,426	W100,348																			
DH-8B	N60,800	W55,300																			
DH-8A	N60,720	W55,336																			
DH-28	N49,716	W96,425																			
DH-27	N49,720	W98,742																			
DH-26	N25,739	W83,249																			
DH-25	N40,345	W84,146																			
DH-24	N43,315	W84,341																			
DH-23	N46,491	W84,555																			
DH-22	N36,579	W91,788																			
DH-21	N37,120	W84,153																			
DH-20	N29,256	W83,312																			
DH-2	S0	W112,000																			
BH-17	N38,065	W56,023																			

GEOLOGICAL STATISTICS

DEPTHS ARE IN METERS

TEST HOLE	HANFORD COORD N/S	HANFORD COORD E/W	COHASSETT IF DEPTH	COHASSETT IF FRAC	COHASSETT CE DEPTH	COHASSETT CE FRAC	GRANDE RONDE GR (BETWEEN CH & UM) DEPTH	GR (BETWEEN CH & UM) % IF	UMTANUM DEPTH	UMTANUM % IF	TWO FLOWS BELOW UMTANUM DEPTH	TWO FLOWS BELOW UMTANUM % IF	BOTTOM	REFERENCES	COMMENTS
DC-7/8	N14,956	W14,862	924.8	ERR	937.0	ERR	983.0	18.6	1084.9	32.3	1158.5	8.6	1191.0	NWC-1136/NWC-1635	COORDS FROM DC-8
RRL-14	N41,473	W91,228	939.4	ERR	944.4	ERR	1011.9	15.9	1134.9	33.9	1194.8	29.9	1219.2	NWC-1136/NWC-1635	
RRL-6	N33,507	W88,816	942.6	ERR	945.5	ERR	1019.3	17.1	1132.5	40.6	1202.7	4.9	1231.4	NWC-1136/NWC-1635	COORDS FROM RRL-6B
DC-4	N49,386	W65,208	904.0	ERR	908.6	ERR	985.7	6.0	1097.3	27.2	1159.8	14.0	1218.6	NWC-1136/NWC-1635	
RRL-2	N39,212	W84,040	912.3	ERR	914.1	ERR	992.1	17.3	1099.4	64.1	1169.8	38.6	1211.0	NWC-1136/NWC-1635	
DC-6	N54,137	W17,721	749.2	ERR	751.0	ERR	821.4	9.9	925.4	12.1	993.0	17.0	1076.9	NWC-1136/NWC-1635	
DC-14	N84,489	W33,860	739.7	ERR	745.5	ERR	818.7	7.2	936.3	41.7	975.4	19.5	1000.0	NWC-1136/NWC-1635	
DC-15	S15,134	E14,990	763.5	ERR	769.0	ERR	810.5	5.6	913.2	42.0	991.5	17.6	1051.3	NWC-1136/NWC-1635	COORDS ARE ESTIMATES
DDH-3	S30,383	E15,232	791.3	ERR	801.6	ERR	841.2	3.3	935.4	21.7	1022.3	0.0	1077.2	NWC-1136/NWC-1635	
DH-5	N114,000	W127,000	613.3	ERR	616.9	ERR	684.6	12.5	796.7	14.4	860.8	1.5	961.0	NWC-1136/NWC-1635	COORDS ARE ESTIMATES
DC-12	N10,125	W53,687	794.2	ERR	805.0	ERR	862.0	16.3	978.9	22.4	1050.8	0.0	1076.1	NWC-1136/NWC-1635	
DC-2	N47,968	W48,255	716.0	ERR	720.2	ERR	800.4	5.2	901.6	16.7	968.7	10.2	1005.8	NWC-1136/NWC-1635	
DH-4	N117,000	W10,000	509.0	ERR	513.3	ERR	587.0	4.9	701.6	32.5	742.2	1.4	785.8	NWC-1136/NWC-1635	COORDS ARE ESTIMATES
WW-6	S8,850	W63,170												NWC-1635	
RSW-1	S0	W112,000												NWC-1635	COORDS ARE ESTIMATES
RRL-9	N39,665	W79,978												NWC-1635	
RRL-8	N47,410	W91,631												NWC-1635	
RRL-7	N45,720	W84,815												NWC-1635	
RRL-5	N42,314	W88,475												NWC-1635	
RRL-4	N35,498	W78,251												NWC-1635	
RRL-3	N44,578	W84,174												NWC-1635	
RRL-15	N39,200	W78,750												NWC-1635	COORDS ARE ESTIMATES
RRL-12	N21,510	W83,399												NWC-1635	
RRL-11	N35,247	W94,608												NWC-1635	
RRL-10	N37,029	W88,639												NWC-1635	
O'BRIAN	N52,647	W114,053												NWC-1635	
MCGEE	N52,747	W103,405												NWC-1635	
LEMCKE	N52,000	W119,500												NWC-1635	
FORD	N52,993	W111,403												NWC-1635	
ENYEART	N50,285	W111,396												NWC-1635	
DH-9B	N53,873	W17,345												NWC-1635	
DH-9A	N43,049	W41,716												NWC-1635	
DH-7	N49,426	W100,348												NWC-1635	
DH-8B	N60,800	W55,300												NWC-1635	COORDS ARE ESTIMATES
DH-8A	N60,720	W55,336												NWC-1635	
DH-28	N49,716	W96,425												NWC-1635	
DH-27	N49,720	W98,742												NWC-1635	
DH-26	N25,739	W83,249												NWC-1635	
DH-25	N40,345	W84,146												NWC-1635	
DH-24	N43,315	W84,341												NWC-1635	
DH-23	N46,491	W84,555												NWC-1635	
DH-22	N36,579	W91,788												NWC-1635	
DH-21	N37,120	W84,153												NWC-1635	
DH-20	N29,256	W83,312												NWC-1635	
DH-2	S0	W112,000												NWC-1635	COORDS ARE ESTIMATES
DH-17	N38,065	W56,023												NWC-1635	

DEPTHS ARE IN METERS

TEST	HANFORD COORD		MP	SADDLE MOUNTAINS		WANAPUM						GRANDE RONDE									
						PRIEST RAPIDS		ROZA		FRENCHMAN SPRINGS		GR (ABOVE RC)		ROCKY COULEE				GR (BETWEEN RC & CH)			
HOLE	N/S	E/W	ELEV	DEPTH	% IF	DEPTH	% IF	DEPTH	% IF	DEPTH	% IF	DEPTH	% IF	IF DEPTH	IF FRAC	CE DEPTH	CE FRAC	IF DEPTH	IF FRAC	CE DEPTH	CE FRAC
DH-16	N42,155	W48,055																			
DH-15	N42,300	W52,000																			
DH-14	N42,200	W55,800																			
DH-13A	N40,098	W71,795																			
DH-13	N40,100	W71,800																			
DH-12	N60,003	W75,002																			
DH-11	N39,988	W78,091																			
DH-10	N59,282	W55,205																			
DDH-1	N49,367	W48,347																			
DC-5	N49,453	W85,131																			
DC-3	N43,802	W70,156																			
DC-23	N57,020	W82,993																			
DC-22D	N43,461	W91,140																			
DC-22C	N43,531	W91,025																			
DC-22B	N43,451	W90,899																			
DC-22A	N43,369	W90,775																			
DC-20D	N46,984	W80,038																			
DC-20C	N46,785	W79,920																			
DC-20B	N46,909	W79,836																			
DC-20A	N46,704	W79,817																			
DC-19D	N28,724	W70,122																			
DC-19C	N28,808	W70,245																			
DC-19A	N28,532	W70,338																			
DC-16C	N31,290	W84,238																			
DC-16A	N31,316	W83,729																			
DC-11	N60,693	W53,026																			
DC-10	N62,468	W53,244																			
DB-9	N62,200	W56,200																			
DB-8	N41,994	W42,063																			
DB-7	N16,279	W23,534																			
DB-6	N1,420	W17,594																			
DB-5	N51,889	W52,377																			
DB-4	N34,673	W27,437																			
DB-3	N1,962	E18,926																			
DB-2	N15,323	E12,713																			
DB-15	N47,310	W41,772																			
DB-14	N25,080	W79,512																			
DB-13	N17,333	W47,318																			
DB-12	N63,009	W95,020																			
DB-11	N49,426	W100,348																			
DB-10	N51,236	W35,886																			
DB-1	N1,633	E13,573																			
CH9	N60,334	W52,760																			
BH-17	N80,816	W62,076																			
BENSON RAN	N19,847	W82,345																			
ARH-DC-1	N48,000	W48,200																			

DEPTHS ARE IN METERS

TEST HOLE	HANFORD COORD N/S	HANFORD COORD E/W	GRANDE RONDE: COHASSETT IF DEPTH	COHASSETT IF FRAC	COHASSETT CE DEPTH	COHASSETT CE FRAC	GR (BETWEEN CH & UM) DEPTH	GR (BETWEEN CH & UM) % IF	UMTANUM DEPTH	UMTANUM % IF	TWO FLOWS BELOW UMTANUM DEPTH	TWO FLOWS BELOW UMTANUM % IF	BOTTOM	REFERENCES	COMMENTS
DH-16	N42,155	W48,055												NWC-1635	
DH-15	N42,300	W52,000												NWC-1635	COORDS ARE ESTIMATES
DH-14	N42,200	W55,800												NWC-1635	COORDS ARE ESTIMATES
DH-13A	N40,698	W71,795												NWC-1635	
DH-13	N40,100	W71,800												NWC-1635	COORDS ARE ESTIMATES
DH-12	N60,003	W75,002												NWC-1635	
DH-11	N39,988	W78,091												NWC-1635	
DH-10	N59,282	W55,205												NWC-1635	
DDH-1	N49,367	W48,347												NWC-1635	
DC-5	N49,453	W85,131												NWC-1635	
DC-3	N43,802	W70,156												NWC-1635	
DC-23	N57,020	W82,993												NWC-1635	
DC-22B	N43,461	W91,146												NWC-1635	
DC-22C	N43,531	W91,025												NWC-1635	
DC-22B	N43,451	W90,899												NWC-1635	
DC-22A	N43,369	W90,775												NWC-1635	
DC-20B	N46,984	W80,038												NWC-1635	
DC-20C	N46,785	W79,920												NWC-1635	
DC-20B	N46,909	W79,836												NWC-1635	
DC-20A	N46,704	W79,817												NWC-1635	
DC-19D	N28,724	W70,122												NWC-1635	
DC-19C	N28,808	W70,245												NWC-1635	
DC-19A	N28,532	W70,338												NWC-1635	RRL-13=DC-19A
DC-16C	N31,290	W84,238												NWC-1635	
DC-16A	N31,316	W83,729												NWC-1635	
DC-11	N60,693	W53,026												NWC-1635	
DC-10	N62,468	W53,244												NWC-1635	
DB-9	N62,200	W56,200												NWC-1635	
DB-8	N41,994	W42,063												NWC-1635	
DB-7	N16,279	W23,534												NWC-1635	
DB-6	N1,420	W17,594												NWC-1635	
DB-5	N51,889	W52,377												NWC-1635	
DB-4	N34,673	W27,437												NWC-1635	
DB-3	N1,962	E18,926												NWC-1635	
DB-2	N15,323	E12,713												NWC-1635	
DB-15	N47,310	W41,772												NWC-1635	
DB-14	N25,080	W79,512												NWC-1635	
DB-13	N17,333	W47,318												NWC-1635	
DB-12	N63,009	W95,020												NWC-1635	
DB-11	N49,426	W100,348												NWC-1635	
DB-10	N51,236	W35,886												NWC-1635	
DB-1	N1,633	E13,573												NWC-1635	COORDS ARE CH6
CH8	N60,334	W52,766												NWC-1635	
BH-17	N80,816	W62,076												NWC-1635	
BENSON RAN	N19,847	W82,345												NWC-1635	
ARH-DC-1	N48,000	W48,200												NWC-1635	

DEPTHS ARE IN METERS

TEST HOLE	HANFORD COORD N/S	HANFORD COORD E/W	MP ELEV	SADDLE MOUNTAINS DEPTH	SADDLE MOUNTAINS % IF	WANAPUM PRIEST RAPIDS DEPTH	WANAPUM PRIEST RAPIDS % IF	WANAPUM ROZA DEPTH	WANAPUM ROZA % IF	WANAPUM FRENCHMAN SPRINGS DEPTH	WANAPUM FRENCHMAN SPRINGS % IF	GRANDE RONDE GR (ABOVE RC) DEPTH	GRANDE RONDE GR (ABOVE RC) % IF	GRANDE RONDE ROCKY COULEE IF DEPTH	GRANDE RONDE ROCKY COULEE IF FRAC	GRANDE RONDE ROCKY COULEE CE DEPTH	GRANDE RONDE ROCKY COULEE CE FRAC	GRANDE RONDE GR (BETWEEN RC & CH) IF DEPTH	GRANDE RONDE GR (BETWEEN RC & CH) IF FRAC	GRANDE RONDE GR (BETWEEN RC & CH) CE DEPTH	GRANDE RONDE GR (BETWEEN RC & CH) CE FRAC
92-14	N92,000	W14,000																			
S11-E12A	S10,o92	E12,261																			
399-5-2	S26,299	W9,870																			
114-o0	N114,000	W60,000																			
113-38	N113,000	W38,000																			

GEOLOGICAL STATISTICS

DEPTHS ARE IN METERS

TEST HOLE	HANFORD COORD N/S	HANFORD COORD E/W	COHASSETT IF DEPTH	COHASSETT IF FRAC	COHASSETT CE DEPTH	COHASSETT CE FRAC	GRANDE RONDE GR (BETWEEN CH & UM) DEPTH	GR (BETWEEN CH & UM) % IF	UMTANUM DEPTH	UMTANUM % IF	TWO FLOWS BELOW UMTANUM DEPTH	TWO FLOWS BELOW UMTANUM % IF	BOTTOM	REFERENCES	COMMENTS
92-14	N92,000	N14,000												NWC-1635	
S11-E12A	S10,692	E12,261												NWC-1635	
399-5-2	S26,299	W9,870												NWC-1635	
114-60	N114,000	W60,000												NWC-1635	
113-38	N113,000	W38,000												NWC-1635	

SINGLE BOREHOLE TEST DATA

PAGES 1 THROUGH 5

IDENTIFIER			INPUT DATA												CALCULATED DATA					
	TEST INTERVAL		EFFECTIVE INTERVAL					TRANSMISSIVITY									EFFECTIVE CONDUCTIVITY			
TEST HOLE	TOP	BOTTOM	TOP	BOTTOM	GROUP	UNIT	BASALT STRUCTURE	MIN	MAX	BG	MEAS TYPE	RATING	DA	REFERENCE	LOG TRAN	EFFECTIVE THICKNESS	MIN	MAX	BG	LOG COND
47-50	79.2	89.9	79.2	89.9	SM	RATTLE	IB	ERR	ERR	7.85E-04	?	0	Y	ST-38	-3.105	10.7	ERR	ERR	7.33E-05	-4.135
50-45	40.5	54.3	40.5	54.3	SM	RATTLE	IB	ERR	ERR	1.61E-04	?	0	Y	ST-38	-3.792	13.8	ERR	ERR	1.17E-05	-4.932
50-48	64.9	76.2	64.9	76.2	SM	RATTLE	IB	ERR	ERR	3.44E-04	?	0	Y	ST-38	-3.463	11.3	ERR	ERR	3.04E-05	-4.517
51-46	36.6	50.3	36.6	50.3	SM	RATTLE	IB	ERR	ERR	7.42E-05	?	0	Y	ST-38	-4.130	13.7	ERR	ERR	5.41E-06	-5.266
52-46	50.3	68.6	50.3	68.6	SM	RATTLE	IB	ERR	ERR	1.72E-04	?	0	Y	ST-38	-3.764	18.3	ERR	ERR	9.40E-06	-5.027
52-48	44.2	59.4	44.2	59.4	SM	RATTLE	IB	ERR	ERR	3.98E-05	?	0	Y	ST-38	-4.400	15.2	ERR	ERR	2.62E-06	-5.582
53-50	44.5	58.8	44.5	58.8	SM	RATTLE	IB	ERR	ERR	6.34E-04	?	0	Y	ST-38	-3.198	14.3	ERR	ERR	4.44E-05	-4.353
BH-16	249.9	281.9	265.2	280.4	SM	SELAH	IB	1.08E-05	1.07E-04	3.00E-05	?	1	N	B-84/11	-4.523	15.2	7.07E-07	7.07E-06	1.97E-06	-5.705
BH-17	312.4	334.1	313.6	318.2	SM	ASOTIN	IF	1.08E-07	1.08E-06	3.00E-07	?	1	N	B-84/11	-6.523	4.6	2.34E-08	2.34E-07	6.52E-08	-7.186
DB-01	297.5	301.8	ERR	ERR	WN	MABTON	IB	1.08E-03	ERR	ERR	?	1	N	B-84/11	ERR	ERR	ERR	ERR	ERR	ERR
DB-01	329.2	347.2	ERR	ERR	WN	PRIEST	IF	1.07E-04	1.08E-03	3.00E-04	?	1	N	B-84/11	-3.523	ERR	ERR	ERR	ERR	ERR
DB-02	274.3	281.6	274.3	281.6	WN	MABTON	IB	1.08E-03	ERR	ERR	?	1	N	B-84/11	ERR	7.3	1.47E-04	ERR	ERR	ERR
DB-02	313.3	362.7	313.3	338.3	WN	PRIEST	COMP	1.07E-04	1.08E-03	3.00E-04	?	1	N	B-84/11	-3.523	25.0	4.30E-06	4.30E-05	1.20E-05	-4.921
DB-02	355.4	362.7	356.0	359.7	WN	ROZA	FT	1.08E-05	1.07E-04	3.00E-05	?	1	N	B-84/11	-4.523	3.7	2.91E-06	2.91E-05	8.11E-06	-5.091
DB-02	363.3	388.0	363.3	388.3	WN	ROZA	CE	ERR	ERR	3.55E-10	?	0	Y	TI-176	-9.450	25.0	ERR	ERR	1.42E-11	-10.848
DB-04	414.5	427.6	415.4	427.6	WN	MABTON	IB	1.08E-03	ERR	ERR	?	?	N	B-84/11	ERR	12.2	8.81E-05	ERR	ERR	ERR
DB-05	248.1	276.8	253.9	276.8	WN	MABTON	IB	1.07E-04	1.08E-03	3.00E-04	?	?	N	B-84/11	-3.523	22.9	4.69E-06	4.69E-05	1.31E-05	-4.883
DB-07	182.0	247.5	236.5	247.5	WN	MABTON	IB	1.08E-03	ERR	ERR	?	?	N	B-84/11	ERR	11.0	9.77E-05	ERR	ERR	ERR
DB-09	140.5	179.5	149.4	179.5	WN	MABTON	IB	1.07E-04	1.08E-03	3.00E-04	?	?	N	B-84/11	-3.523	30.1	3.57E-06	3.57E-05	9.97E-06	-5.001
DB-10	242.0	272.2	256.9	272.2	WN	MABTON	IB	1.08E-07	1.08E-06	3.00E-07	?	?	N	B-84/11	-6.523	15.3	7.03E-09	7.03E-08	1.96E-08	-7.708
DB-11	216.1	315.8	264.0	307.2	WN	MABTON	IB	1.08E-07	1.08E-05	1.08E-06	?	1	N	B-84/11	-5.969	43.2	2.49E-09	2.49E-07	2.49E-08	-7.604
DB-12	114.6	156.4	114.6	156.4	WN	MABTON	IB	ERR	ERR	1.72E-03	?	1	N	B-84/11	-2.764	41.8	ERR	ERR	4.11E-05	-4.386
DB-12	159.7	199.0	178.6	179.8	WN	PRIEST	IF	1.07E-02	ERR	ERR	?	1	N	B-84/11	ERR	1.2	8.96E-03	ERR	ERR	ERR
DB-12	201.2	215.5	207.0	210.0	WN	PRIEST	IF	1.07E-02	ERR	ERR	?	1	N	B-84/11	ERR	3.0	3.58E-03	ERR	ERR	ERR
DB-13	115.2	116.1	ERR	ERR	SM	ELEPHANT	IF	1.08E-03	1.07E-02	3.00E-03	?	1	N	B-84/11	-2.523	ERR	ERR	ERR	ERR	ERR
DB-13	141.1	163.4	ERR	ERR	SM	RATTLE	IB	1.07E-04	1.08E-03	3.00E-04	?	1	N	B-84/11	-3.523	ERR	ERR	ERR	ERR	ERR
DB-13	219.5	225.2	ERR	ERR	SM	SELAH	IB	1.07E-04	1.08E-03	3.00E-04	?	1	N	B-84/11	-3.523	ERR	ERR	ERR	ERR	ERR
DB-13	264.3	287.1	ERR	ERR	SM	COLD	IB	1.07E-04	1.08E-03	3.00E-04	?	1	N	B-84/11	-3.523	ERR	ERR	ERR	ERR	ERR
DB-13	364.2	393.8	364.2	393.8	WN	MABTON	IB	1.08E-03	1.07E-02	3.00E-03	?	1	N	B-84/11	-2.523	29.6	3.63E-05	3.63E-04	1.01E-04	-3.994
DB-14	64.0	87.8	64.0	87.8	SM	RATTLE	IB	ERR	ERR	1.18E-05	?	0	Y	LD-67	-4.927	23.8	ERR	ERR	4.97E-07	-6.304
DB-14	136.9	150.0	137.8	150.0	SM	SELAH	IB	1.08E-05	1.07E-04	3.00E-05	?	1	N	B-84/11	-4.523	12.2	8.81E-07	8.81E-06	2.46E-06	-5.609
DB-14	187.8	202.4	188.4	202.4	SM	COLD	IB	1.08E-03	1.07E-02	3.00E-03	?	1	N	B-84/11	-2.523	14.0	7.68E-05	7.68E-04	2.14E-04	-3.669
DB-14	279.5	315.2	279.5	315.2	WN	MABTON	IB	1.07E-04	1.08E-03	3.00E-04	?	1	N	B-84/11	-3.523	35.7	3.01E-06	3.01E-05	8.40E-06	-5.076
DB-14	316.4	371.2	369.4	371.2	WN	PRIEST	IF	1.07E-04	ERR	ERR	?	1	N	B-84/11	ERR	1.8	5.97E-05	ERR	ERR	ERR
DB-15	45.7	67.7	50.6	67.7	SM	RATTLE	IB	5.04E-04	5.30E-04	5.16E-04	U	0	Y	B-83/07	-3.287	17.1	2.95E-05	3.10E-05	3.02E-05	-4.520
DB-15	112.8	128.6	121.9	128.6	SM	SELAH	IB	ERR	ERR	8.30E-06	U	0	Y	B-83/08	-5.081	6.7	ERR	ERR	1.24E-06	-5.907
DB-15	155.4	187.8	157.9	187.1	SM	COLD	IB	1.69E-03	1.95E-03	1.80E-03	U	0	Y	B-83/10	-2.745	29.2	5.79E-05	6.68E-05	6.16E-05	-4.210
DB-15	195.1	207.9	202.7	207.9	SM	UMATILLA	IF	1.07E-04	1.08E-03	3.00E-04	?	1	N	B-84/11	-3.523	5.2	2.07E-05	2.07E-04	5.77E-05	-4.239
DB-15	207.3	229.8	210.0	229.8	SM	UMATILLA	IF	1.07E-04	1.08E-03	3.00E-04	?	1	N	B-84/11	-3.523	19.8	5.43E-06	5.43E-05	1.52E-05	-4.820
DB-15	207.3	257.3	229.8	257.3	WN	MABTON	IB	1.08E-03	ERR	ERR	?	1	N	B-84/11	ERR	27.5	3.91E-05	ERR	ERR	ERR
DB-15	318.5	336.8	323.4	336.8	WN	ROZA	IF	1.08E-03	ERR	ERR	?	1	N	B-84/11	ERR	13.4	8.02E-05	ERR	ERR	ERR
DB-15	338.3	349.6	338.3	349.6	WN	ROZA	CE	1.07E-13	1.08E-11	1.07E-12	?	1	N	B-84/11	-11.969	11.3	9.51E-15	9.51E-13	9.51E-14	-13.022
DB-15	396.2	409.3	399.3	409.3	WN	FRENCH	IF	1.07E-04	1.08E-03	3.00E-04	?	1	N	B-84/11	-3.523	10.0	1.08E-05	1.07E-04	3.00E-05	-4.523
DB-15	412.4	418.5	413.6	417.6	WN	FRENCH	IF	1.07E-04	1.08E-03	3.00E-04	?	1	N	B-84/11	-3.523	4.0	2.69E-05	2.69E-04	7.50E-05	-4.125
DB-15	424.6	439.8	431.3	437.7	WN	FRENCH	IF	1.07E-04	1.08E-03	3.00E-04	?	1	N	B-84/11	-3.523	6.4	1.68E-05	1.68E-04	4.69E-05	-4.329
DB-15	442.0	466.3	444.7	466.3	WN	FRENCH	IF	1.08E-05	1.07E-04	3.00E-05	?	1	N	B-84/11	-4.523	21.6	4.98E-07	4.98E-06	1.39E-06	-5.857
DB-15	478.5	513.0	481.3	506.0	WN	FRENCH	IF	1.07E-04	ERR	ERR	?	1	N	B-84/11	ERR	24.7	4.35E-06	ERR	ERR	ERR
DB-15	524.3	548.6	532.2	535.2	WN	FRENCH	IF	1.07E-09	1.08E-08	3.00E-09	?	1	N	B-84/11	-8.523	3.0	3.58E-10	3.58E-09	1.00E-09	-9.000
DB-15	588.9	600.8	596.8	600.8	GR	VANTAGE	IB	1.07E-12	1.08E-10	1.06E-11	?	1	N	B-86/02	-10.969	4.0	2.69E-13	2.69E-11	2.69E-12	-11.571
DC-03	1092.4	1107.9	1092.4	1107.9	GR	UMTANUM	CE	1.07E-12	1.08E-11	3.00E-12	?	1	N	B-86/02	-11.523	15.5	6.94E-14	6.94E-13	1.94E-13	-12.713

IDENTIFIER			INPUT DATA												CALCULATED DATA					
	TEST INTERVAL		EFFECTIVE INTERVAL					TRANSMISSIVITY									EFFECTIVE CONDUCTIVITY			
TEST HOLE	TOP	BOTTOM	TOP	BOTTOM	GROUP	UNIT	BASALT STRUCTURE	MIN	MAX	BG	MEAS TYPE	RATING	QA	REFERENCE	LOG TRAN	EFFECTIVE THICKNESS	MIN	MAX	BG	LOG COND
DC-04	882.1	896.7	882.1	896.7	GR	ROCKY	CE	8.49E-13	1.83E-12	1.29E-12	0	0	Y	B-83/12	-11.889	14.6	5.82E-14	1.25E-13	8.84E-14	-13.054
DC-04	899.2	915.6	904.0	908.6	GR	COHASSETT	FT	1.08E-07	1.08E-06	3.00E-07	?	1	N	B-84/11	-6.523	4.6	2.34E-08	2.34E-07	6.52E-08	-7.186
DC-05	899.2	915.3	904.0	908.6	GR	COHASSETT	FT	1.08E-07	1.08E-06	3.00E-07	?	1	N	B-86/02	-6.523	4.6	2.34E-08	2.34E-07	6.52E-08	-7.186
DC-05	964.1	976.3	964.1	976.3	GR	COHASSETT	CE	1.07E-12	1.06E-11	3.00E-12	?	1	N	B-84/11	-11.523	12.2	8.81E-14	8.81E-13	2.46E-13	-12.609
DC-06	688.8	1320.7	688.8	1320.7	GR	COMP	COMP	ERR	ERR	1.07E-04	?	1	N	B-84/11;6E	-3.969	631.9	ERR	ERR	1.70E-07	-6.769
DC-06	730.3	822.0	730.3	822.0	GR	COMP	COMP	1.08E-05	1.08E-06	3.00E-05	?	1	N	B-84/11;6E	-4.523	91.7	1.17E-07	1.17E-08	3.27E-07	-6.485
DC-06	822.0	881.8	821.1	871.7	GR	COMP	IF	ERR	ERR	1.08E-05	?	1	N	B-84/11;6E	-4.969	50.6	ERR	ERR	2.12E-07	-6.673
DC-06	912.0	938.2	925.4	933.9	GR	UMTANUM	FT	1.08E-07	1.06E-06	3.00E-07	?	1	N	B-86/02	-6.523	8.5	1.26E-08	1.26E-07	3.53E-08	-7.452
DC-06	937.9	988.8	937.9	988.8	GR	UMTANUM	CE	1.07E-12	1.08E-11	3.00E-12	?	1	N	B-84/11	-11.523	50.9	2.11E-14	2.11E-13	5.89E-14	-13.230
DC-06	988.2	1075.6	993.0	1033.3	GR	UMTANUM	FB	ERR	ERR	1.08E-05	?	1	N	B-84/11	-4.969	40.3	ERR	ERR	2.67E-07	-6.574
DC-06	1075.9	1165.6	1076.9	1158.8	GR	COMP	IF	1.08E-05	1.07E-04	3.00E-05	?	1	N	B-84/11;6E	-4.523	81.9	1.31E-07	1.31E-06	3.66E-07	-6.436
DC-06	1165.6	1270.7	1165.6	1270.7	GR	COMP	CE	1.07E-12	1.08E-11	3.00E-12	?	1	N	B-84/11;6E	-11.523	105.1	1.02E-14	1.02E-13	2.85E-14	-13.544
DC-06	1270.7	1320.7	1275.3	1286.0	GR	COMP	FT	1.08E-06	1.08E-05	3.00E-06	?	1	N	B-86/02;6E	-5.523	10.7	1.00E-07	1.00E-06	2.80E-07	-6.552
DC-07	1255.8	1297.5	1255.8	1297.5	GR	?	COMP	1.07E-09	1.08E-08	3.00E-09	?	1	N	B-84/11	-8.523	41.7	2.58E-11	2.58E-10	7.19E-11	-10.143
DC-07	1298.8	1351.5	1310.9	1343.9	GR	?	IF	1.07E-09	1.08E-08	3.00E-09	?	1	N	B-84/11	-8.523	33.0	3.26E-11	3.26E-10	9.09E-11	-10.041
DC-07	1354.5	1406.7	1366.7	1395.7	GR	?	COMP	1.08E-08	1.08E-07	3.00E-08	?	1	N	B-84/11	-7.523	29.0	3.71E-10	3.71E-09	1.03E-09	-8.985
DC-07	1427.7	1471.3	1430.4	1466.4	GR	?	IF	1.07E-09	1.08E-08	3.00E-09	?	1	N	B-84/11	-8.523	36.0	2.99E-11	2.99E-10	8.33E-11	-10.079
DC-12	370.9	382.2	373.4	382.2	WN	PRIEST	IF	ERR	ERR	1.29E-04	?	?	N	B-84/11	-3.889	8.8	ERR	ERR	1.47E-05	-4.834
DC-12	404.8	415.7	405.4	415.7	WN	ROZA	IF	ERR	ERR	1.29E-04	?	?	N	B-84/11	-3.889	10.3	ERR	ERR	1.25E-05	-4.902
DC-12	459.6	467.6	463.0	467.0	WN	FRENCH	IF	1.08E-05	1.61E-05	1.32E-05	?	?	N	B-84/11	-4.880	4.0	2.69E-06	4.03E-06	3.29E-06	-5.482
DC-12	514.4	521.2	515.1	519.4	WN	FRENCH	IF	ERR	ERR	4.41E-05	?	?	N	B-84/11	-4.356	4.3	ERR	ERR	1.03E-05	-4.989
DC-12	582.0	604.7	583.7	604.7	WN	FRENCH	IF	ERR	ERR	8.60E-07	?	?	N	B-84/11	-6.066	21.0	ERR	ERR	4.10E-08	-7.388
DC-12	625.0	633.7	627.0	633.7	WN	FRENCH	IF	3.66E-05	8.39E-05	5.54E-05	?	?	N	B-84/11	-4.257	6.7	5.46E-06	1.25E-05	8.26E-06	-5.083
DC-12	676.0	688.8	677.0	681.5	GR	?	IF	3.01E-07	8.60E-07	5.09E-07	?	?	N	B-84/11	-6.293	4.5	6.69E-08	1.91E-07	1.13E-07	-6.947
DC-12	691.0	701.3	694.3	701.3	GR	?	FT	1.08E-06	1.08E-05	3.00E-06	?	1	N	B-86/02	-5.523	7.0	1.54E-07	1.54E-06	4.29E-07	-6.368
DC-12	734.0	745.5	735.8	743.1	GR	ROCKY	IF	1.08E-05	1.07E-04	3.00E-05	?	1	N	B-84/11	-4.523	7.3	1.47E-06	1.47E-05	4.11E-06	-5.386
DC-12	734.0	745.5	735.8	743.1	GR	ROCKY	FT	1.08E-05	1.07E-04	3.00E-05	?	?	N	B-86/02	-4.523	7.3	1.47E-06	1.47E-05	4.11E-06	-5.386
DC-12	781.8	811.2	784.3	807.1	GR	COHASSETT	COMP	1.08E-07	8.60E-07	3.04E-07	?	?	N	B-84/11	-6.517	22.8	4.71E-09	3.77E-08	1.33E-08	-7.875
DC-12	858.9	866.5	862.0	865.3	GR	?	FT	1.08E-03	3.23E-03	1.86E-03	?	?	N	B-84/11	-2.730	3.3	3.26E-04	9.77E-04	5.64E-04	-3.249
DC-12	858.9	866.5	862.0	865.3	GR	?	FT	1.08E-03	1.07E-02	3.00E-03	?	1	N	B-86/02	-2.523	3.3	3.26E-04	3.26E-03	9.09E-04	-3.041
DC-12	865.0	872.6	867.2	870.5	GR	?	FT	1.07E-04	1.08E-03	3.00E-04	?	1	N	B-86/02	-3.523	3.3	3.26E-05	3.26E-04	9.09E-05	-4.041
DC-12	865.0	872.6	867.2	870.5	GR	?	IF	8.60E-05	7.09E-04	2.47E-04	?	?	N	B-84/11	-3.607	3.3	2.61E-05	2.15E-04	7.48E-05	-4.126
DC-12	907.7	961.0	912.6	952.5	GR	?	COMP	1.08E-07	2.15E-07	1.52E-07	?	?	N	B-84/11	-6.818	39.9	2.69E-09	5.39E-09	3.81E-09	-8.419
DC-12	934.8	961.0	942.1	947.3	GR	MCCOY	FT	1.08E-08	1.08E-07	3.00E-08	?	1	N	B-86/02	-7.523	5.2	2.07E-09	2.07E-08	5.77E-09	-8.239
DC-12	975.1	1000.4	978.7	994.9	GR	UMTANUM	FT	1.08E-10	1.08E-08	1.07E-09	?	1	N	B-86/02	-8.969	16.2	6.64E-12	6.64E-10	6.64E-11	-10.178
DC-12	1018.3	1240.5	1018.3	1240.5	GR	?	COMP	5.38E-04	7.53E-04	6.36E-04	?	?	N	B-84/11	-3.197	222.2	2.42E-06	3.39E-06	2.86E-06	-5.543
DC-12	1225.6	1240.5	1227.1	1232.0	GR	?	COMP	5.38E-04	7.53E-04	6.36E-04	?	?	N	B-84/11	-3.197	4.9	1.10E-04	1.54E-04	1.30E-04	-3.887
DC-12	1244.8	1357.9	1244.8	1357.9	GR	?	COMP	ERR	ERR	1.07E-04	?	?	N	B-84/11	-3.969	113.1	ERR	ERR	9.50E-07	-6.022
DC-12	1324.1	1357.9	1324.1	1357.9	GR	?	COMP	ERR	ERR	1.07E-04	?	?	N	B-84/11	-3.969	33.8	ERR	ERR	3.18E-06	-5.498
DC-14	112.2	144.8	119.2	128.9	SM	ELEPHANT	IF	1.08E-06	1.08E-05	3.00E-06	?	1	N	B-84/11	-5.523	9.7	1.11E-07	1.11E-06	3.09E-07	-6.510
DC-14	144.8	164.0	149.7	161.2	SM	RATTLE	IB	1.08E-05	1.07E-04	3.00E-05	?	1	N	B-84/11	-4.523	11.5	9.35E-07	9.35E-06	2.61E-06	-5.584
DC-14	205.7	234.1	213.7	232.9	SM	SELAH	IB	1.07E-04	1.08E-03	3.00E-04	?	1	N	B-84/11	-3.523	19.2	5.60E-06	5.60E-05	1.56E-05	-4.806
DC-14	268.2	276.5	270.7	275.5	SM	ASOTIN	IF	1.08E-03	1.07E-02	3.00E-03	?	1	N	B-84/11	-2.523	4.8	2.24E-04	2.24E-03	6.25E-04	-3.204
DC-14	277.4	281.0	279.2	281.0	SM	ASOTIN	IF	1.08E-03	1.07E-02	3.00E-03	?	1	N	B-84/11	-2.523	1.8	5.97E-04	5.97E-03	1.67E-03	-2.778
DC-14	281.9	295.4	288.0	294.1	SM	ASOTIN	IF	1.07E-04	1.08E-03	3.00E-04	?	1	N	B-84/11	-3.523	6.1	1.76E-05	1.76E-04	4.92E-05	-4.308
DC-14	295.4	330.1	296.0	329.2	WN	MABTON	IB	1.08E-05	1.07E-04	3.00E-05	?	1	N	B-84/11	-4.523	33.2	3.24E-07	3.24E-06	9.04E-07	-6.044
DC-14	364.5	370.9	365.8	370.0	WN	PRIEST	IF	1.08E-03	1.07E-02	3.00E-03	?	1	N	B-84/11	-2.523	4.2	2.56E-04	2.56E-03	7.14E-04	-3.146
DC-14	370.9	387.4	371.9	374.3	WN	PRIEST	IF	1.08E-03	ERR	ERR	?	1	N	B-84/11	ERR	2.4	4.48E-04	ERR	ERR	ERR
DC-14	391.7	410.3	395.0	407.8	WN	ROZA	IF	1.08E-03	1.07E-02	3.00E-03	?	1	N	B-84/11	-2.523	12.8	8.40E-05	8.40E-04	2.34E-04	-3.630
DC-14	451.1	462.1	455.4	456.7	WN	FRENCH	IF	1.07E-04	ERR	ERR	?	1	N	B-84/11	ERR	3.3	3.26E-05	ERR	ERR	ERR

IDENTIFIER			INPUT DATA												CALCULATED DATA					
	TEST INTERVAL		EFFECTIVE INTERVAL					TRANSMISSIVITY									EFFECTIVE CONDUCTIVITY			
TEST HOLE	TOP	BOTTOM	TOP	BOTTOM	GROUP	UNIT	BASALT STRUCTURE	MIN	MAX	BG	MEAS TYPE	RATING	QA	REFERENCE	LOG TRAN	EFFECTIVE THICKNESS	MIN	MAX	BG	LOG COND
DC-14	480.1	497.4	487.7	496.2	WN	FRENCH	IF	1.07E-04	1.08E-03	3.00E-04	?	1	N	B-84/11	-3.523	8.5	1.26E-05	1.26E-04	3.53E-05	-4.452
DC-14	499.9	520.6	512.1	516.9	WN	FRENCH	IF	1.07E-04	ERR	ERR	?	1	N	B-84/11	ERR	4.8	2.24E-05	ERR	ERR	ERR
DC-14	554.7	571.5	559.6	564.8	WN	FRENCH	IF	1.07E-04	1.08E-03	3.00E-04	?	1	N	B-84/11	-3.523	5.2	2.07E-05	2.07E-04	5.77E-05	-4.239
DC-14	575.5	604.4	575.5	597.4	WN	FRENCH	IF	1.08E-03	1.07E-02	3.00E-03	?	1	N	B-84/11	-2.523	21.9	4.91E-05	4.91E-04	1.37E-04	-3.863
DC-14	646.2	681.2	653.5	675.4	GR	?	IF	1.07E-04	1.08E-03	3.00E-04	?	1	N	B-84/11	-3.523	21.9	4.91E-06	4.91E-05	1.37E-05	-4.863
DC-14	717.8	733.0	721.8	729.1	GR	?	FT	1.08E-07	1.06E-06	3.00E-07	?	1	N	B-86/02	-6.523	7.3	1.47E-08	1.47E-07	4.11E-08	-7.386
DC-14	734.6	766.0	747.1	754.7	GR	?	FT	1.08E-06	1.08E-05	3.00E-06	?	1	N	B-86/02	-5.523	7.6	1.41E-07	1.41E-06	3.95E-07	-6.404
DC-14	809.9	876.0	819.0	871.1	GR	?	IF	1.07E-09	1.08E-07	1.08E-08	?	1	N	B-84/11	-7.969	52.1	2.06E-11	2.06E-09	2.06E-10	-9.685
DC-14	841.2	876.0	861.4	871.1	GR	?	FT	1.07E-09	1.08E-08	3.00E-09	?	1	N	B-86/02	-8.523	9.7	1.11E-10	1.11E-09	3.09E-10	-9.510
DC-14	877.8	906.8	882.1	900.1	GR	?	FT	1.08E-07	1.08E-06	3.00E-07	?	1	N	B-86/02	-6.523	18.0	5.97E-09	5.97E-08	1.67E-08	-7.778
DC-14	932.7	958.3	936.3	956.5	GR	UMTANUM	FT	1.08E-05	1.07E-04	3.00E-05	?	1	N	B-86/02	-4.523	20.2	5.32E-07	5.32E-06	1.49E-06	-5.828
DC-14	969.3	983.0	975.4	979.9	GR	?	FT	1.08E-06	1.08E-05	3.00E-06	?	1	N	B-86/02	-5.523	4.5	2.39E-07	2.39E-06	6.67E-07	-6.176
DC-14	993.6	1016.5	999.1	1015.3	GR	?	IF	1.08E-05	1.07E-04	3.00E-05	?	1	N	B-84/11	-4.523	16.2	6.64E-07	6.64E-06	1.85E-06	-5.732
DC-15	83.8	104.5	86.6	94.8	SM	LEVEY	IB	ERR	ERR	1.07E-04	?	1	N	B-84/11	-3.969	8.2	ERR	ERR	1.31E-05	-4.882
DC-15	127.1	151.2	133.5	150.6	SM	RATTLE	IB	1.07E-04	1.08E-03	3.00E-04	?	1	N	B-84/11	-3.523	17.1	6.29E-06	6.29E-05	1.75E-05	-4.756
DC-15	182.6	192.0	183.2	188.1	SM	SELAH	IB	1.08E-06	1.07E-04	1.08E-05	?	1	N	B-84/11	-4.969	4.9	2.19E-07	2.19E-05	2.19E-06	-5.659
DC-15	191.7	201.2	192.6	197.5	SM	ESQUATZEL	IF	1.08E-06	1.08E-05	3.00E-06	?	1	N	B-84/11	-5.523	4.9	2.19E-07	2.19E-06	6.12E-07	-6.213
DC-15	217.3	239.9	219.8	239.9	SM	COLD	IB	3.00E-05	3.10E-05	3.10E-05	U	0	Y	B-83/08	-4.509	20.1	1.49E-06	1.54E-06	1.54E-06	-5.812
DC-15	305.7	326.7	309.7	324.3	WN	MABTON	IB	1.08E-05	1.07E-04	3.00E-05	?	1	N	B-84/11	-4.523	14.6	7.36E-07	7.36E-06	2.05E-06	-5.687
DC-15	350.2	362.4	350.5	359.4	WN	PRIEST	IF	1.08E-07	1.08E-06	3.00E-07	?	1	N	B-84/11	-6.523	8.9	1.21E-08	1.21E-07	3.37E-08	-7.472
DC-15	371.6	394.1	375.5	391.7	WN	ROZA	IF	1.08E-03	1.07E-02	3.00E-03	?	1	N	B-84/11	-2.523	16.2	6.64E-05	6.64E-04	1.85E-04	-3.732
DC-15	413.6	423.7	417.3	420.3	WN	ROZA	IF	1.07E-04	1.08E-03	3.00E-04	?	1	N	B-84/11	-3.523	3.0	3.58E-05	3.58E-04	1.00E-04	-4.000
DC-15	425.2	449.0	428.9	431.3	WN	FRENCH	IF	1.08E-06	1.08E-05	3.00E-06	?	1	N	B-84/11	-5.523	2.4	4.48E-07	4.48E-06	1.25E-06	-5.903
DC-15	451.4	459.0	452.6	458.1	WN	FRENCH	IF	1.08E-03	1.07E-02	3.00E-03	?	1	N	B-84/11	-2.523	5.5	1.95E-04	1.95E-03	5.45E-04	-3.263
DC-15	458.7	473.4	463.3	467.9	WN	FRENCH	IF	1.07E-04	1.08E-03	3.00E-04	?	1	N	B-84/11	-3.523	4.6	2.34E-05	2.34E-04	6.52E-05	-4.186
DC-15	469.4	485.5	475.2	481.3	WN	FRENCH	IF	ERR	ERR	1.08E-03	?	1	N	B-84/11	-2.969	6.1	ERR	ERR	1.76E-04	-3.754
DC-15	528.8	558.7	530.0	557.8	WN	FRENCH	IF	1.08E-05	1.07E-04	3.00E-05	?	1	N	B-84/11	-4.523	27.8	3.87E-07	3.87E-06	1.08E-06	-5.967
DC-15	559.0	575.2	561.4	573.0	WN	FRENCH	IF	1.08E-03	1.07E-02	3.00E-03	?	1	N	B-84/11	-2.523	11.6	9.27E-05	9.27E-04	2.59E-04	-3.587
DC-15	639.5	670.3	641.3	661.4	GR	?	FT	1.08E-06	1.08E-05	3.00E-06	?	1	N	B-86/02	-5.523	20.1	5.35E-08	5.35E-07	1.49E-07	-6.826
DC-15	678.8	714.1	684.9	698.9	GR	?	FT	1.08E-03	1.07E-02	3.00E-03	?	1	N	B-86/02	-2.523	14.0	7.68E-05	7.68E-04	2.14E-04	-3.669
DC-15	723.0	758.0	744.3	747.4	GR	?	FT	1.08E-06	1.08E-05	3.00E-06	?	1	N	B-86/02	-5.523	3.1	3.47E-07	3.47E-06	9.68E-07	-6.014
DC-15	759.6	776.6	768.1	775.4	GR	?	FT	1.07E-04	1.08E-03	3.00E-04	?	1	N	B-86/02	-3.523	7.3	1.47E-05	1.47E-04	4.11E-05	-4.386
DC-15	808.0	823.0	810.5	811.7	GR	?	FT	ERR	1.07E-04	ERR	?	2	N	B-86/02	ERR	1.2	ERR	8.96E-05	ERR	ERR
DC-15	857.4	874.2	862.0	873.3	GR	?	FT	1.08E-06	1.08E-05	3.00E-06	?	1	N	B-86/02	-5.523	11.3	9.51E-08	9.51E-07	2.65E-07	-6.576
DC-15	902.5	948.8	909.8	946.4	GR	?	FT	1.07E-04	ERR	ERR	?	1	N	B-86/02	ERR	36.6	2.94E-06	ERR	ERR	ERR
DC-15	989.1	1004.6	991.2	1002.8	GR	?	FT	1.08E-06	1.07E-04	1.08E-05	?	1	N	B-86/02	-4.969	11.6	9.27E-08	9.27E-06	9.27E-07	-6.033
DC-15	1006.1	1040.0	1016.2	1031.1	GR	?	FT	1.07E-04	ERR	ERR	?	1	N	B-86/02	ERR	14.9	7.21E-06	ERR	ERR	ERR
DC-15	1100.6	1108.3	1102.2	1106.1	GR	?	FT	ERR	1.08E-08	ERR	?	1	N	B-86/02	ERR	3.9	ERR	2.76E-09	ERR	ERR
DC-15	1140.3	1172.0	1141.5	1168.3	GR	?	FT	1.08E-08	1.08E-05	3.00E-07	?	1	N	B-86/02	-6.523	26.8	4.01E-10	4.01E-07	1.12E-08	-7.951
DC-15	1261.3	1293.3	1267.1	1286.3	GR	?	IF	1.08E-06	1.07E-04	1.08E-05	?	1	N	B-84/11	-4.969	19.2	5.60E-08	5.60E-06	5.60E-07	-6.252
DC-16A	203.6	254.5	208.5	246.3	SM	RATTLE	IB	1.07E-04	ERR	ERR	?	1	N	B-84/11	ERR	37.8	2.84E-06	ERR	ERR	ERR
DC-16A	282.9	311.2	287.1	306.3	SM	SELAH	IB	1.08E-05	1.07E-04	3.00E-05	?	1	N	B-84/11	-4.523	19.2	5.60E-07	5.60E-06	1.56E-06	-5.806
DC-16A	329.2	349.4	337.1	367.0	SM	COLD	IB	1.08E-07	1.08E-06	3.00E-07	?	1	N	B-84/11	-6.523	29.9	3.60E-09	3.60E-08	1.00E-08	-7.999
DC-16A	425.2	477.9	432.5	461.8	WN	MABTON	IB	1.07E-04	1.08E-03	3.00E-04	?	1	N	B-84/11	-3.523	29.3	3.67E-06	3.67E-05	1.02E-05	-4.990
DC-16A	515.1	526.7	520.6	521.2	WN	PRIEST	IF	1.08E-07	1.08E-05	1.08E-06	?	1	N	B-84/11	-5.969	0.6	1.79E-07	1.79E-05	1.79E-06	-5.747
DC-16A	536.4	557.2	539.8	544.1	WN	ROZA	IF	1.07E-02	1.07E-01	3.00E-02	?	1	N	B-84/11	-1.523	4.3	2.50E-03	2.50E-02	6.98E-03	-2.156
DC-16A	576.7	609.6	593.4	596.2	WN	FRENCH	IF	1.08E-03	ERR	ERR	?	1	N	B-84/11	ERR	2.8	3.84E-04	ERR	ERR	ERR
DC-16A	641.6	657.1	647.7	651.1	WN	FRENCH	IF	1.08E-06	1.07E-04	1.08E-05	?	1	N	B-84/11	-4.969	3.4	3.16E-07	3.16E-05	3.16E-06	-5.500
DC-16A	670.9	689.2	681.5	684.0	WN	FRENCH	IF	1.08E-03	ERR	ERR	?	1	N	B-84/11	ERR	2.5	4.30E-04	ERR	ERR	ERR
DC-16A	690.7	722.7	694.3	722.7	WN	FRENCH	IF	1.08E-05	1.07E-04	3.00E-05	?	1	N	B-84/11	-4.523	28.4	3.79E-07	3.79E-06	1.06E-06	-5.976

SINGLE BOREHOLE TEST DATA

IDENTIFIER			INPUT DATA												CALCULATED DATA					
	TEST INTERVAL		EFFECTIVE INTERVAL					TRANSMISSIVITY									EFFECTIVE CONDUCTIVITY			
TEST HOLE	TOP	BOTTOM	TOP	BOTTOM	GROUP	UNIT	BASALT STRUCTURE	MIN	MAX	BG	MEAS TYPE	RATING	DA	REFERENCE	LOG TRAN	EFFECTIVE THICKNESS	MIN	MAX	BG	LOG CONG
DC-16A	754.7	780.0	762.2	780.0	WN	FRENCH	IF	1.08E-03	ERR	ERR	?	1	N	B-84/11	ERR	17.8	6.04E-05	ERR	ERR	ERR
DC-16A	787.9	802.2	792.2	802.2	WN	FRENCH	IF	1.07E-04	ERR	ERR	?	1	N	B-84/11	ERR	10.0	1.06E-05	ERR	ERR	ERR
DC-16A	814.1	860.1	824.8	829.1	GR	?	FT	1.07E-04	ERR	ERR	?	1	N	B-86/02	ERR	4.3	2.50E-05	ERR	ERR	ERR
DC-16A	864.1	897.9	868.7	865.4	GR	?	FT	1.08E-07	1.07E-04	3.00E-06	?	1	N	B-86/02	-5.523	16.7	6.44E-09	6.44E-06	1.80E-07	-6.746
DC-16A	905.3	940.6	908.9	929.0	GR	COHASSETT	FT	1.08E-08	1.07E-04	1.08E-06	?	1	N	B-86/02	-5.969	20.1	5.35E-10	5.35E-06	5.35E-08	-7.272
DC-16A	941.2	992.4	941.2	992.4	GR	COHASSETT	CE	ERR	ERR	2.58E-07	?	0	Y	TI-166	-6.588	51.2	ERR	ERR	5.04E-09	-8.298
DC-16A	961.3	991.8	961.3	991.8	GR	COHASSETT	CE	1.07E-12	1.08E-11	3.00E-12	?	1	N	B-86/02	-11.523	30.5	3.52E-14	3.52E-13	9.84E-14	-13.007
DC-16A	991.8	1024.1	999.7	1019.3	GR	COHASSETT	FB	1.07E-09	1.08E-08	3.00E-09	?	1	N	B-86/02	-8.523	19.6	5.46E-11	5.46E-10	1.53E-10	-9.815
DC-16A	1031.0	1065.3	ERR	ERR	GR	?	?	1.06E-11	1.08E-10	3.00E-11	?	1	N	B-84/11	-10.523	ERR	ERR	ERR	ERR	ERR
DC-16A	1070.5	1091.7	ERR	ERR	GR	MCCOY	IF	1.08E-08	1.08E-05	3.00E-07	?	1	N	B-84/11	-6.523	ERR	ERR	ERR	ERR	ERR
DC-16A	1104.3	1136.3	1104.9	1131.4	GR	UMTANUM	FT	1.08E-06	1.08E-05	3.00E-06	?	1	N	B-86/02	-5.523	26.5	4.06E-08	4.06E-07	1.13E-07	-6.946
DC-16A	1137.2	1177.7	1137.2	1177.7	GR	UMTANUM	CE	1.07E-09	1.08E-08	3.00E-09	?	1	N	B-86/02	-8.523	40.5	2.65E-11	2.65E-10	7.41E-11	-10.130
DC-16A	1193.0	1231.1	1202.4	1208.5	GR	?	FT	1.08E-07	1.08E-06	3.00E-07	?	1	N	B-86/02	-6.523	6.1	1.77E-08	1.76E-07	4.92E-08	-7.308
DC-16B	429.8	487.7	429.8	478.5	WN	MABTON	IB	1.08E-05	1.08E-03	3.00E-04	?	1	N	B-84/11	-3.523	48.7	2.21E-07	2.21E-05	6.16E-06	-5.210
MCGEE	247.5	250.5	247.5	250.5	WN	PRIEST	IF	1.07E-02	1.07E-01	3.00E-02	?	1	N	B-84/11	-1.523	3.0	3.58E-03	3.58E-02	1.00E-02	-2.000
MCGEE	281.9	285.0	281.9	285.0	WN	ROZA	FT	1.07E-02	1.07E-01	3.00E-02	?	1	N	B-84/11	-1.523	3.1	3.47E-03	3.47E-02	9.66E-03	-2.014
MCGEE	313.6	333.1	326.1	332.2	WN	ROZA	IF	1.06E-03	ERR	ERR	?	1	N	B-84/11	ERR	6.1	1.76E-04	ERR	ERR	ERR
MCGEE	335.0	355.7	338.6	350.5	WN	FRENCH	IF	1.08E-03	ERR	ERR	?	1	N	B-84/11	ERR	11.9	9.03E-05	ERR	ERR	ERR
MCGEE	402.5	420.0	405.7	417.6	WN	FRENCH	IF	1.08E-03	ERR	ERR	?	1	N	B-84/11	ERR	11.9	9.03E-05	ERR	ERR	ERR
MCGEE	427.9	438.9	429.5	433.4	WN	FRENCH	IF	1.08E-03	ERR	ERR	?	1	N	B-84/11	ERR	3.9	2.76E-04	ERR	ERR	ERR
MCGEE	439.8	452.0	442.9	449.6	WN	FRENCH	IF	1.08E-03	ERR	ERR	?	1	N	B-84/11	ERR	6.7	1.60E-04	ERR	ERR	ERR
MCGEE	481.7	512.1	486.8	495.3	WN	FRENCH	IF	1.08E-03	ERR	ERR	?	1	N	B-84/11	ERR	8.5	1.26E-04	ERR	ERR	ERR
MCGEE	510.2	533.4	516.6	523.6	WN	FRENCH	IF	1.08E-03	ERR	ERR	?	1	N	B-84/11	ERR	7.0	1.54E-04	ERR	ERR	ERR
MCGEE	538.0	562.1	555.0	559.9	WN	FRENCH	IF	1.08E-06	1.08E-05	3.00E-06	?	1	N	B-84/11	-5.523	4.9	2.19E-07	2.19E-06	6.12E-07	-6.213
MCGEE	562.7	591.9	562.7	591.9	GR	VANTAGE	IB	1.08E-06	1.08E-05	3.00E-06	?	1	N	B-84/11	-5.523	29.2	3.68E-08	3.68E-07	1.03E-07	-6.988
MCGEE	592.5	607.2	592.5	596.0	GR	?	FT	1.07E-04	1.08E-03	3.00E-04	?	1	N	B-84/11	-3.523	3.5	3.07E-05	3.07E-04	8.57E-05	-4.067
MCGEE	606.9	637.6	608.4	630.9	GR	ROCKY	FT	1.06E-05	1.08E-03	3.00E-04	?	1	N	B-84/11	-3.523	22.5	4.78E-07	4.78E-05	1.33E-05	-4.875
MCGEE	648.6	670.3	657.8	663.9	GR	ROCKY	FB	1.06E-06	1.08E-05	3.00E-06	?	1	N	B-84/11	-5.523	6.1	1.76E-07	1.76E-06	4.92E-07	-6.308
MCGEE	666.9	712.3	670.6	709.0	GR	COHASSETT	FT	8.60E-05	3.01E-04	1.61E-04	?	1	N	B-84/11	-3.793	38.4	2.24E-06	7.84E-06	4.19E-06	-5.378
MCGEE	729.4	769.3	737.6	760.2	GR	COHASSETT	FB	6.45E-07	1.83E-06	1.09E-06	?	1	N	B-84/11	-5.964	22.6	2.85E-08	8.10E-08	4.81E-08	-7.318
MCGEE	798.6	841.2	798.6	835.8	GR	MCCOY	FT	ERR	ERR	3.23E-06	?	1	N	B-84/11	-5.491	37.2	ERR	ERR	8.67E-08	-7.062
MCGEE	900.4	951.9	921.7	943.7	GR	UMTANUM	FB	ERR	ERR	1.08E-06	?	1	N	B-84/11	-5.969	22.0	ERR	ERR	4.89E-08	-7.311
RRL-02	415.7	470.6	426.4	441.7	WN	MABTON	IB	1.08E-08	1.08E-07	3.00E-08	?	1	N	B-84/11	-7.523	15.3	7.03E-10	7.03E-09	1.96E-09	-8.708
RRL-02	479.8	522.4	514.8	522.4	WN	PRIEST	FT	1.07E-04	1.08E-03	3.00E-04	?	1	N	B-84/11	-3.523	7.6	1.41E-05	1.41E-04	3.95E-05	-4.404
RRL-02	528.8	540.4	533.1	536.1	WN	ROZA	FT	1.08E-03	1.07E-02	3.00E-03	?	1	N	B-84/11	-2.523	3.0	3.58E-04	3.58E-03	1.00E-03	-3.000
RRL-02	581.3	677.3	585.8	677.3	WN	FRENCH	COMP	1.08E-03	1.07E-02	3.00E-03	?	1	N	B-84/11	-2.523	91.5	1.17E-05	1.17E-04	3.28E-05	-4.484
RRL-02	684.0	805.9	691.9	799.8	WN	FRENCH	COMP	1.08E-03	1.07E-02	3.00E-03	?	2	N	B-84/11	-2.523	107.9	9.96E-06	9.96E-05	2.78E-05	-4.556
RRL-02	812.3	826.9	814.4	819.9	GR	VANTAGE	IB	1.08E-06	1.08E-05	3.00E-06	?	1	N	B-86/02	-5.523	5.5	1.95E-07	1.95E-06	5.45E-07	-6.263
RRL-02	828.8	887.9	829.1	865.6	GR	?	COMP	1.08E-05	1.07E-04	3.00E-05	?	1	N	B-84/11	-4.523	36.5	2.95E-07	2.95E-06	8.22E-07	-6.085
RRL-02	893.7	908.9	893.7	908.9	GR	ROCKY	CE	1.08E-11	1.08E-10	3.00E-11	?	1	N	B-86/02	-10.523	15.2	7.07E-13	7.07E-12	1.97E-12	-11.705
RRL-02	908.6	920.5	912.3	918.1	GR	COHASSETT	FT	1.00E-08	4.67E-08	4.51E-08	D	0	Y	B-83/01	-7.345	5.8	1.72E-09	1.15E-08	7.78E-09	-8.109
RRL-02	931.8	966.8	931.8	966.8	GR	COHASSETT	CE	1.94E-12	1.83E-10	1.83E-10	D	0	Y	B-84/03	-9.738	35.0	5.53E-14	5.22E-12	5.22E-12	-11.282
RRL-02	967.7	988.8	967.7	988.8	GR	COHASSETT	CE	3.40E-12	5.90E-11	4.70E-12	D	0	Y	B-82/11	-11.328	21.1	1.61E-13	2.80E-12	2.23E-13	-12.652
RRL-02	989.7	1019.3	989.7	1002.2	GR	COHASSETT	FB	2.18E-04	9.11E-04	8.28E-04	D	0	Y	TI-095	-3.082	12.5	1.74E-05	7.29E-05	6.62E-05	-4.179
RRL-02	1026.6	1055.2	1031.1	1047.0	GR	?	COMP	1.06E-10	1.07E-09	3.00E-10	?	1	N	B-84/11	-9.523	15.9	6.76E-12	6.76E-11	1.89E-11	-10.724
RRL-02	1056.4	1074.1	1059.2	1064.7	GR	MCCOY	FT	1.08E-10	1.08E-09	3.00E-10	?	1	N	B-86/02	-9.523	5.5	1.95E-11	1.96E-10	5.45E-11	-10.263
RRL-02	1087.5	1095.1	1087.5	1095.1	GR	MCCOY	CE	1.08E-11	1.08E-10	3.00E-11	?	1	N	B-86/02	-10.523	7.6	1.41E-12	1.41E-11	3.95E-12	-11.404
RRL-02	1087.5	1152.4	1096.4	1144.2	GR	UMTANUM	FT	2.62E-04	5.17E-04	5.16E-04	D	0	Y	B-82/11	-3.287	47.8	5.48E-06	1.08E-05	1.08E-05	-4.967
RRL-02	1146.7	1159.8	1146.7	1159.8	GR	UMTANUM	CE	9.70E-12	2.60E-10	1.70E-11	D	0	Y	B-82/11	-10.770	13.1	7.40E-13	1.98E-11	1.30E-12	-11.887
RRL-02	1152.4	1166.5	1163.7	1165.6	GR	UMTANUM	CE	2.20E-04	9.47E-04	9.46E-04	D	0	Y	B-83/02	-3.024	1.9	1.16E-04	4.96E-04	4.98E-04	-3.303

SINGLE BOREHOLE TEST DATA

IDENTIFIER			INPUT DATA												CALCULATED DATA					
	TEST INTERVAL		EFFECTIVE INTERVAL					TRANSMISSIVITY								EFFECTIVE CONDUCTIVITY				
TEST HOLE	TOP	BOTTOM	TOP	BOTTOM	GROUP	UNIT	BASALT STRUCTURE	MIN	MAX	BG	MEAS TYPE	RATING	QA	REFERENCE	LOG TRAN	EFFECTIVE THICKNESS	MIN	MAX	BG	LOG CONO
RRL-02	1169.5	1185.4	1170.1	1177.7	GR	UMTANUM	FB	1.07E-04	1.08E-03	3.00E-04	D	1	N	B-86/02	-3.523	7.6	1.41E-05	1.41E-04	3.95E-05	-4.404
RRL-06	640.7	652.6	647.1	651.1	MN	FRENCH	TB	1.08E-11	1.08E-10	3.00E-11	?	1	N	B-84/11	-10.523	4.0	2.69E-12	2.69E-11	7.50E-12	-11.125
RRL-06	929.0	951.3	942.7	947.6	GR	COHASSETT	FT	1.08E-11	1.08E-10	3.00E-11	?	1	N	B-84/11	-10.523 #	4.9	2.19E-12	2.19E-11	6.12E-12	-11.213
RRL-06	940.0	951.3	942.7	947.6	GR	COHASSETT	FT	1.08E-11	1.08E-10	3.00E-11	?	1	N	B-86/02	-10.523	4.9	2.19E-12	2.19E-11	6.12E-12	-11.213
RRL-06	953.7	1015.6	953.7	1015.6	GR	COHASSETT	CE	1.07E-14	1.08E-11	3.00E-13	?	1	N	B-86/02	-12.523	61.9	1.74E-16	1.74E-13	4.85E-15	-14.315
RRL-06	1015.0	1041.2	1018.9	1039.4	GR	COHASSETT	FB	1.08E-08	1.08E-07	3.00E-08	?	1	N	B-86/02	-7.523	20.5	5.24E-10	5.24E-09	1.46E-09	-8.835
RRL-06	1103.7	1125.6	1103.7	1125.6	GR	MCCOY	CE	1.07E-13	1.08E-10	3.00E-12	?	1	N	B-86/02	-11.523	21.9	4.91E-15	4.91E-12	1.37E-13	-12.863
RRL-06	1130.2	1165.3	1132.3	1161.0	GR	UMTANUM	FT	1.08E-07	1.08E-06	3.00E-07	?	1	N	B-86/02	-6.523	28.7	3.75E-09	3.75E-08	1.05E-08	-7.981
RRL-06	1166.5	1200.3	1166.5	1200.3	GR	UMTANUM	CE	1.07E-12	1.08E-11	3.00E-12	?	1	N	B-86/02	-11.523	33.8	3.18E-14	3.18E-13	8.86E-14	-13.052
RRL-06	1200.6	1231.4	1202.7	1220.7	GR	UMTANUM	FB	1.07E-09	1.08E-08	3.00E-09	?	1	N	B-86/02	-8.523	18.0	5.97E-11	5.97E-10	1.67E-10	-9.778
RRL-14	937.9	959.2	939.4	949.8	GR	COHASSETT	FT	1.08E-06	1.08E-05	3.00E-06	?	1	N	B-86/02	-5.523	10.4	1.03E-07	1.03E-06	2.88E-07	-6.540
RRL-14	957.1	1009.8	957.1	1009.8	GR	COHASSETT	CE	1.07E-12	1.08E-11	3.00E-12	?	1	N	B-86/02	-11.523	52.7	2.04E-14	2.04E-13	5.69E-14	-13.245
RRL-14	1004.0	1037.2	1012.2	1035.7	GR	COHASSETT	FB	1.08E-07	1.07E-04	3.00E-06	?	1	N	B-86/02	-5.523	23.5	4.57E-09	4.57E-06	1.28E-07	-6.894
RRL-14	1132.3	1162.5	1135.4	1155.2	GR	UMTANUM	FT	1.08E-06	1.08E-05	3.00E-06	?	1	N	B-86/02	-5.523	19.8	5.43E-08	5.43E-07	1.52E-07	-6.820
RRL-14	1164.0	1190.2	1164.0	1190.2	GR	UMTANUM	CE	1.07E-13	1.07E-12	3.00E-13	?	1	N	B-86/02	-12.523	26.2	4.10E-15	4.10E-14	1.15E-14	-13.941
RRL-14	1180.8	1204.6	1193.6	1199.7	GR	UMTANUM	FB	1.08E-08	1.08E-07	3.00E-08	?	1	N	B-86/02	-7.523	6.1	1.76E-09	1.76E-08	4.92E-09	-8.308
S11-E12A	68.6	86.0	72.5	80.8	SM	LEVEY	IB	ERR	ERR	2.15E-05	?	0	Y	LD-27	-4.668	8.3	ERR	ERR	2.59E-06	-5.587

MULTIPLE BOREHOLE TEST DATA

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MULTIPLE BOREHOLE TEST DATA

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IDENTIFIER						INPUT DATA															
	PROD INTERVAL			OBS INTERVAL		PROD STRATA						OBS STRATA				TRANSMISSIVITY			STORATIVITY		
PROD HOLE	TOP	BOTTOM	OBS HOLE	TOP	BOTTOM	GROUP	UNIT	STRUCTURE	TEST TYPE	FLOWRATE Q	DIST R	GROUP	UNIT	STRUCTURE	AQUIF THICK	MIN	MAX	BG	MIN	MAX	BG
DC-07	ERR	ERR	DC-8	500.0	ERR	GR	MCCOY	IF	PUMP	ERR	ERR	GR	MCCOY	IF	ERR	1.00E-07	1.00E-06	3.00E-07	ERR	ERR	4.00E-05
FORD	ERR	ERR	ENYEART	ERR	ERR	SM	PRIEST	IF	PUMP	ERR	ERR	WN	PRIEST	IF	ERR	1.00E-02	1.00E-01	3.00E-02	ERR	ERR	1.00E-04
ENYEART	ERR	ERR	FORD	ERR	ERR	WN	PRIEST	IF	PUMP	ERR	ERR	WN	PRIEST	IF	ERR	1.00E-02	1.00E-01	3.00E-02	1.00E-04	1.00E-03	3.00E-04
FORD	ERR	ERR	OBRIAN	ERR	ERR	SM	PRIEST	IF	PUMP	ERR	ERR	WN	PRIEST	IF	ERR	1.00E-01	1.00E+00	3.00E-01	ERR	ERR	1.00E-04

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MULTIPLE BOREHOLE TEST DATA

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IDENTIFIER													
	PROD INTERVAL			OBS INTERVAL			VERTICAL CONDUCTIVITY						
PROD HOLE	TOP	BOTTOM	OBS HOLE	TOP	BOTTOM	DIST	MIN	MAX	BG	MEAS TYPE	RATING	QA	REFERENCE
DC-07	ERR	ERR	DC-8	500.0	ERR	ERR	ERR	ERR	ERR	U	0	Y	?
FORD	ERR	ERR	ENYEART	ERR	ERR	ERR	ERR	ERR	ERR	U	0	N	?
ENYEART	ERR	ERR	FORD	ERR	ERR	ERR	ERR	ERR	ERR	U	0	N	?
FORD	ERR	ERR	OBRIAN	.ERR	ERR	ERR	ERR	ERR	ERR	U	0	N	?

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ATTACHMENT B

ATTACHMENT B

REQUESTED DATA/REFERENCES

1. Document Number: SD-BWI-TI-329 (RRL-2B/2C completion Report)

2. Document Number: SD-BWI-TC-026 (Drilling and Testing Specifications for DC-23WGR

3. Water Level Data (January, 1985 to the present) - numerical output only (nongraphical data)

4. Documents requested from DOE during the Data-Review (December, 1986) (This list is too numerous to relist, please refer to the request forms contained in the meeting document).